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Sanitized Copy Approved for Release 2010/05/10 : CIA-RDP80T00246A048500500001-8 REPORT INFORMATION REPORT INFORMATION CENTRAL IN TELLIGEN CE AGEN CY This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law. C-O-N-F-I-D-E-N-T-I-A-L HOFORE -25X1 COUNTRY China REPORT Peining Electron Tube /4/ May 1959 DATE DISTR. **SUBJECT** 25X1 NO. PAGES description REQUIREMENT NO. 25X1 DATE OF INFO. REFERENCES PLACE & DATE ACQ. 25X1 SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

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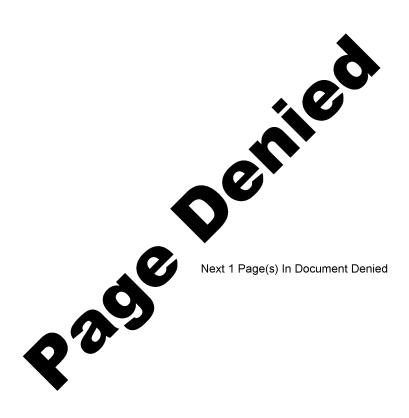
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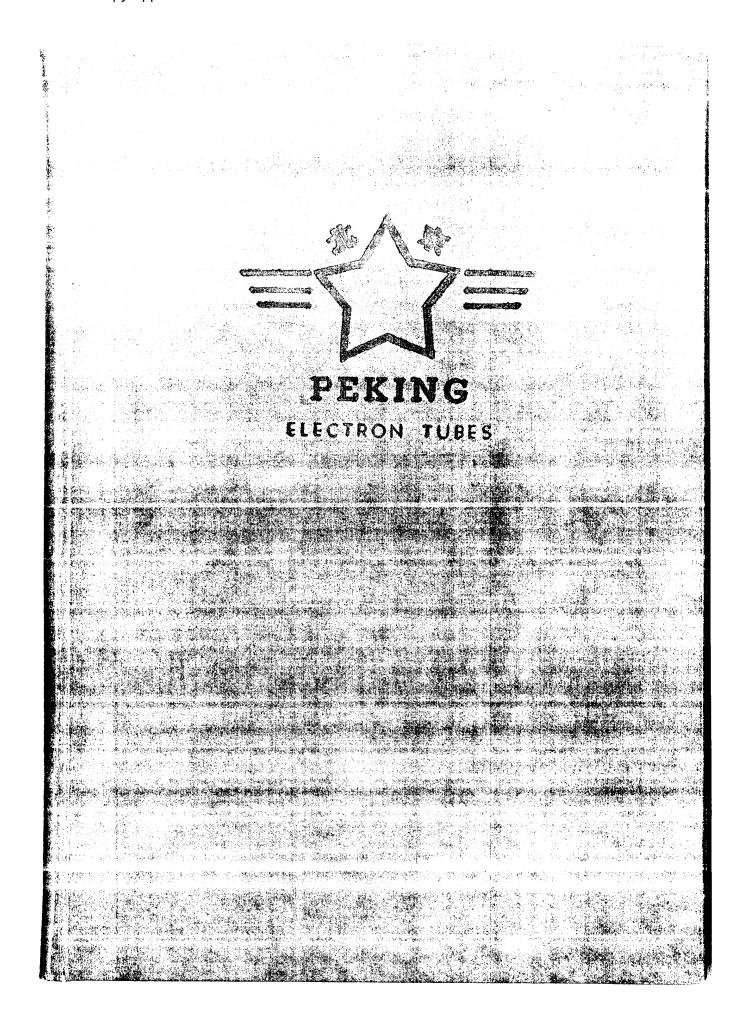
INFORMATION REPORT INFOR

### INFORMATION REPORT

25X1

25X1





25X1



### PREFACE

In order to satisfy the requirements of the large-scale economic construction throughout our country and the needs of the people's daily-growing living standard, the modern Peking Electron Tube Facotry has been built and put into operation with the technical assistance of the Soviet Union.

The stock products of our factory are mainly tubes of Soviet selested types with excellent characteristics. In the course of manufacture all the tubes have to go through strict controlling processes; excellent quality and long service period are thus guaranteed. They have earned much praise from all the customers who have used them.

The products of our factory can meet the requirements of different industrial branches. We hope you would place your orders at our factory. All kinds of samples for trials are at your disposal upon request.

### TYPE NUMBERING SYSTEM

The PEKING type electron tubes are indicated according to a type numbering system, which provides information concerning electrical data, uses and constructional characteristics of the tube. This system is in general use on the U.S.S.R.

### RECEIVING AND AMPLIFYING TUBES

The type numbers for receiving and amplifying tube consists of the four following symbols:

FIRST SYMBOL: Rating of Filament or Heater

- 1 1.2 volt filament
- 2 2.2 volt to 2.5 volt filament or heater
- 4 4.2 volt filament or heater
- 6 6.3 volt heater

### SECOND SYMBOL: Electrode System

- A Heptode
- B Diode Pentode
- Ж Sharp-cutoff Pentode
- K Remote-cutoff Pentode
- H Twin Triode
- Π Beam Tetrode or Output Pentode
- C Triode
- X Twin Diode
- Ц Half-wave or Full-wave Rectifier
- Э Tetrode
- E Tuning Indicator

#### THIRD SYMBOL:

The third symbol is a figure indicating the ordinal of the tube type.

### FOURTH SYMBOL: Constructional Characteristics

- C Glass envelope with octal base
- $\Pi$  Glass envelope with loctal base
- $\Pi$  Miniature type (7-pin or 9-pin base)

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From	<u>~1</u> ~~
Exam	pies

1Α2Π	1 1.2 volt Filament	A Heptode	2 2nd type	II Miniature 7-pin
6Н1П	6 6.3 volt Heater	H Twin Triode	I 1st type	Π Miniature 9-pin
4П1Л	4 4.2 volt Filament	П Output Pentode	I 1st type	Л Loctal base

### TRANSMITTING TUBES

#### FIRST SYMBOL:

 $\Gamma$  — Transmitting or power amplifier triode

ΓY — Short-wave transmitting tube

BΓ — Gas-filled rectifier

### SECOND SYMBOL:

Two or three figures indicating the ordinal of the tube type.

### **THYRATRON**

#### FIRST SYMBOL:

TP - Thyratron

#### SECOND SYMBOL:

Fraction — The number of numerator is indicating average value of anode current in amperes, and the dinominator is indicating peak inverse anode voltage in kilo-volts.

### LIST OF SYMBOLS FOR ELECTRODES

a - Anode

k - Cathode

g — Grid ( $g_1$  — Grid No. 1,  $g_2$  — Grid No. 2, etc.)

h — Heater

f — Filament

f<sub>+</sub> — Filament positive

f -- Filament negative

is - Internal shield

t -- Fluorescent screen or Target

NC - No connection to pin

### **HEPTODE**

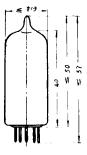
## **1**Α2Π

#### DESCRIPTION

The miniature tube PEKING 1A2II is a heptode with directly heated oxide filament designed for use as a mixer-oscillator in battery operated receivers, and having a low filament and h.t. consumption.







### **FILAMENT**

Filament	voltage	
Filament	current	

${ m v_f}$	1.2	V
$I_{\mathbf{f}}$	30	mA

#### **OPERATING CHARACTERISTICS**

Anode voltage	Va	60	V
Grids No. 2 & No. 4 voltage	$Vg_{2}+g_{3}$	45	V
Grid No. 3 voltage	$\mathrm{Vg}_3$	0	V
Grid No. 1 circuit resistance	$\mathrm{Rg}_{1}$	51	K
R.M.S. grid No. 1 voltage	Vg <sub>1</sub> ~	8	V
Anode current	Ia	0.7	mA
Grids No. 2 & No. 4 current	$\lg_{2} + g_{1}$	1.1	mA
Grid No. 1 current	$Ig_{\dagger}$	130	$\mu\mathrm{A}$
Conversion transconductance	Se	0.24	mA V
Oscillation transconductance	So	0.82	mA/V

## PEKING ELECTRON TUBES



### **1A2**Π

### **HEPTODE**

#### **MAXIMUM RATINGS**

${ m v_f}$	0.9-1.4	V
Va max	90	V
$Vg_{2} + g_{4} max$	75	V
I <sub>k</sub> max	3	mA
Wa max	0.3	W
Ci (g <sub>3</sub> )	5.1	р <b>F</b>
Co	6.3	pF
Ci (g <sub>1</sub> )	0.95	pF
Co $(g_{2} + g_{4})$	7.3	pF
${ m Cg}_3/{ m a}$	< 0.6	pF
${ m Cg_1/g_3}$	0.14	pF
	Va max $Vg_{2} + g_{4} \text{ max}$ $I_{k} \text{ max}$ Wa max $Ci (g_{3})$ $Co$ $Ci (g_{1})$ $Co (g_{2} + g_{4})$ $Cg_{3}/a$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Base:

Miniature 7 pin

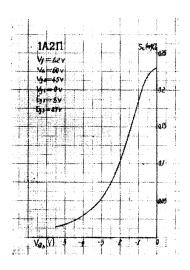
Weight:

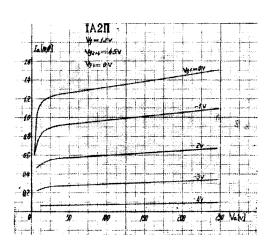
10 g. (approx.)

Mounting: Any

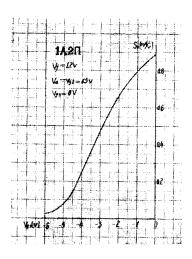


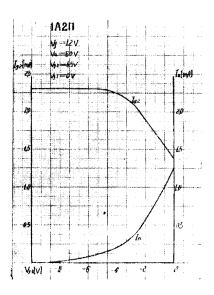
## **1A2**Π





## **1**Α2Π



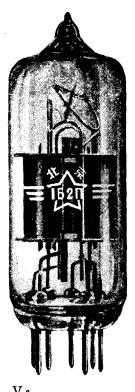


### DIODE-PENTODE

## 1Б2П

#### DESCRIPTION

The miniature tube PEKING  $152\Pi$  is a diode-pentode with directly heated oxide filament designed for use as a detector and a.f. amplifier in battery operated receives, and having a low filament and h.t. consumption.







#### **FILAMENT**

	v	, -	
Filament voltage	$\mathtt{v}_{\mathbf{f}}$	1.2	V
Filament current	${}^{1}\mathbf{f}$	30	mA
CHARACTERISTICS			
Pentode section	·		
Anode voltage	Va	60	v
Grid No. 2 voltage	$\operatorname{Vg}_2$	45	V
Grid No. 1 voltage	$Vg_1$	0	v
Anode current	Ia	0.9	mA
Grid No. 2 current	$\mathrm{Ig}_2$	0.18	mA
Transconductance	s	0.55	mA/V
Internal resistance	$R_{\mathbf{i}}$	1	МΩ
Diode section			
Anode voltage	${ m v_d}$	1.2	v
Anode Load resistor	R <sub>1</sub>	1	K
Anode current	$I_d$	≥7	$\mu$ A

### PEKING ELECTRON TUBES



### 1Б2П

### DIODE-PENTODE

#### **MAXIMUM RATINGS**

Filament voltage	${\rm v_f}$	0.9 - 1.4	V
Anode voltage	Va max	90	V
Grid No. 2 voltage	$\mathrm{Vg}_2$ max	75	V
Cathode current	I <sub>k</sub> max	2	mA
Anode dissipation	Wa max	0.15	W
CAPACITANCES			
Pentode section		•	
Input	$\mathrm{C_{i}}$	1.85	pF
Output	Co	2.1	pF
Grid No. 1 to anode	$\mathrm{Cg_{1}/a}$	0.27	pF
Diode section			
Anode to cathode	Ca/k	0.3	рF

Base:

Miniature 7 pin

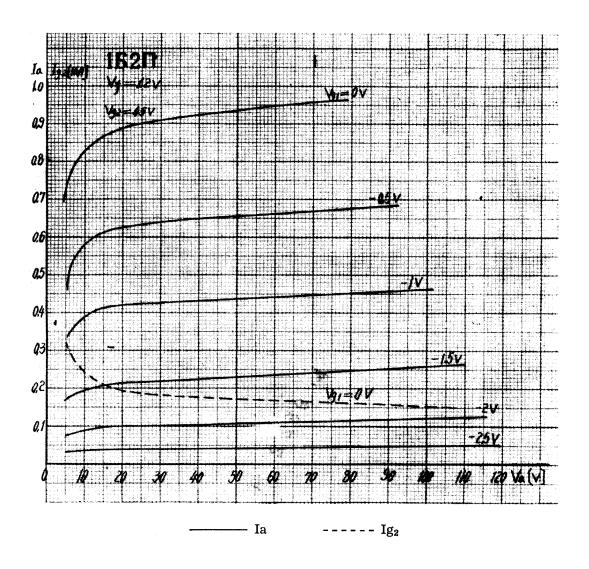
Weight:

10 g. (approx.)

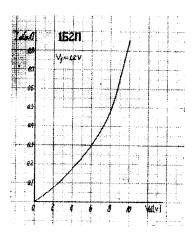
Mounting: Any

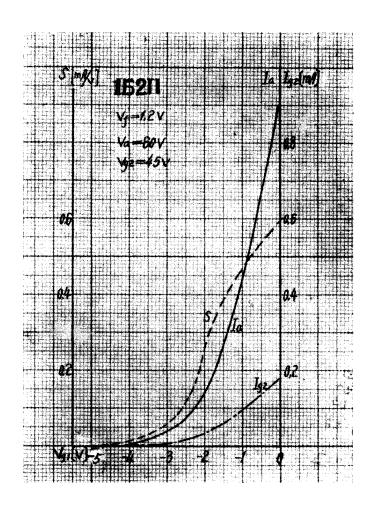


## 1Б2П



## 1Б2П





### R. F. PENTODE

## 1К2П

#### DESCRIPTION

The miniature tube PEKING 1K2 $\Pi$  is a remote-cutoff pentode with directly heated oxide filament designed for use as h.f. or i.f. amplifier in battery operated receivers, and having a low filament and h.t. consumption.







#### **FILAMENT**

Filament voltage	${\rm v_f}$	1.2	V
Filament current	$I_{\mathbf{f}}$	30	mA

#### **CHARACTERISTICS**

Anode voltage	Va	60	v
Grid No. 2 voltage	$\mathrm{Vg}_2$	45	v
Grid No. 1 voltage	$Vg_1$	0	v
Anode current	Ia	1.35	mA
Grid No. 2 current	${\rm Ig}_2$	0.35	mA
Transconductance	S	0.7	mA/V
Internal resistance	$R_{\mathbf{i}}$	1.5	МΩ

### PEKING ELECTRON TUBES



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## 1К2П

### R. F. PENTODE

#### **MAXIMUM RATINGS**

Filament voltage	$v_{\mathbf{f}}$	0.9-1.4	V
Anode voltage	Va max	90	v
Grid No. 2 voltage	$\operatorname{Vg}_2$ max	75	v
Cathode current	${f I_k}$ max	3.5	mA
Anode dissipation	W <sub>a</sub> max	0.3	W
CAPACITANCES			
Input	Ci	3.0	pF
Output	Co	4.9	pF
Grid No. 1 to anode	Cg <sub>1</sub> /a	≥0.01	$\mathbf{pF}$

Base:

Miniature 7 pin

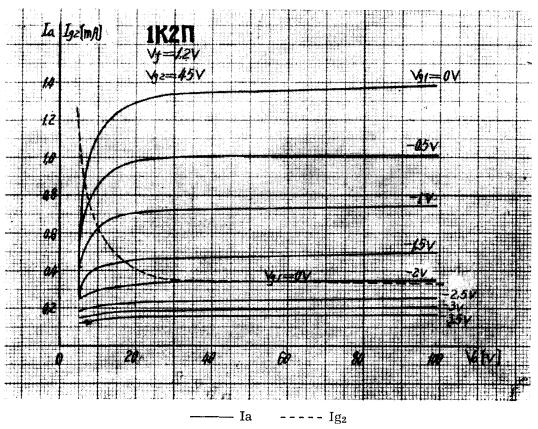
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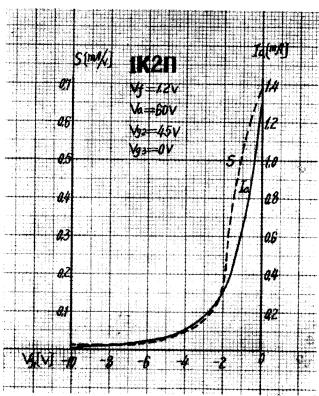
11 g. (approx.)

Mounting: Any.



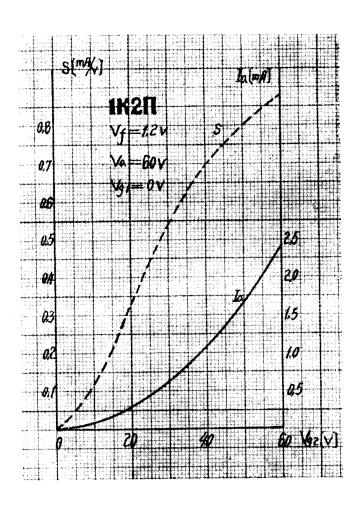
## 1К2П





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## 1К2П

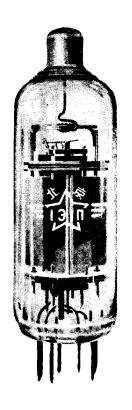


## **TETRODE**

## 1Э1П

#### **DESCRIPTION**

The miniature tube PEKING  $191\Pi$  is a tetrode with directly heated oxide filament for use in electrostatic measurements.







#### **FILAMENT**

${ m V_{f}}$	1	v
$\mathbf{L}_{\mathbf{f}}$	46	mA
Va	6	v
$Vg_1$	4	V
$\operatorname{Vg}_2$	-3	V
Ia	100	$\mu A$
Ig <sub>1</sub>	400	$\mu$ A
${\tt Ig}_2$	$7 \times 10^{-8}$	$\mu A$
S	50	$\mu { m A/V}$
$oldsymbol{\mu}$	1.3	
	$egin{array}{ll} \mathbf{I_f} \\ \mathbf{Va} \\ \mathbf{Vg_1} \\ \mathbf{Vg_2} \\ \mathbf{Ia} \\ \mathbf{Ig_1} \\ \mathbf{Ig_2} \\ \mathbf{S} \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Base:

Miniature 7 pin

Weight:

15 g. (approx.)

Mounting: Any

### PEKING ELECTRON TUBES

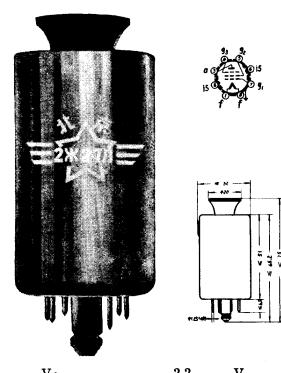


### R. F. PENTODE

## 2Ж27Л

#### **DESCRIPTION**

The loctal type PEKING 2)K27/I is a sharp-cutoff pentode with directly heated oxide filament, primarily intended for use as h.f. amplifier and is suitable for use at 120 MC/S.



#### FILAMENT

FILAMENI			
Filament voltage	${ m v_f}$	2.2	V
Filament current	If	57	mA
CHARACTERISTICS			
Anode voltage	Va	120	V
Grid No. 2 voltage	$Vg_2$	45	V
Grid No. 1 voltage	Vg <sub>1</sub>	0	v
Grid No. 3 voltage	$Vg_3^-$	0	V
Anode current	Ia	1.9	mA
Grid No. 2 current	${\rm Ig}_2$	< 0.5	mA
Transconductance	S	1.25	mA/V
Internal resistance	$R_{\mathbf{i}}$	>0.7	$M\Omega$
Equivalent noise resistance	Req	6	$K\Omega$
Input impedance at 60 MC/S.	Rg: in	15	$K\Omega$
Grid No. 1 voltage for anode current			
of 100 $\mu$ A.	$Vg_1'$	>4.8	V
Grid No. 1 voltage for grid No. 1			
circuit current of $0.5 \mu A$ .	Vg₁″	0 to 1	V

# PEKING ELECTRON TUBES



## 2Ж27Л

### R. F. PENTODE

#### **MAXIMUM RATINGS**

Filament voltage	${f v_f}$	2.0—2.4	V
Anode voltage	Va max	200	V
Grid No. 2 voltage	$\mathrm{Vg}_2$ max	120	v
Anode dissipation	Wa max	1.0	W
Grid No. 2 dissipation	$\mathrm{Wg}_2$ $\mathrm{max}$	0.3	W
Cathode current	$\mathbf{I}_{\mathbf{k}}$ max	5	mA
CAPACITANCES			
Input	Ci	5.3	рF
Output	Co	4.9	pF
Grid No. 1 to anode	Cg <sub>1</sub> /a	< 0.015	pF
Anode to cathode	Ca/k	< 0.01	$\mathbf{pF}$

Base:

Loctal 8 pin

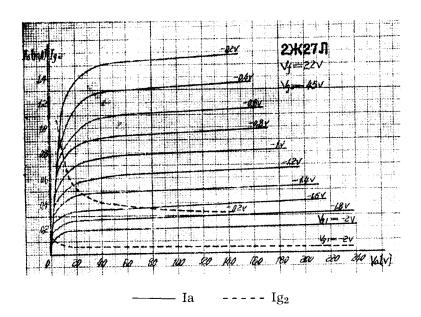
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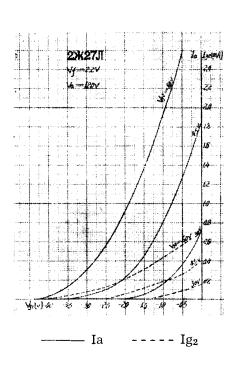
45 g. max

Mounting: Any

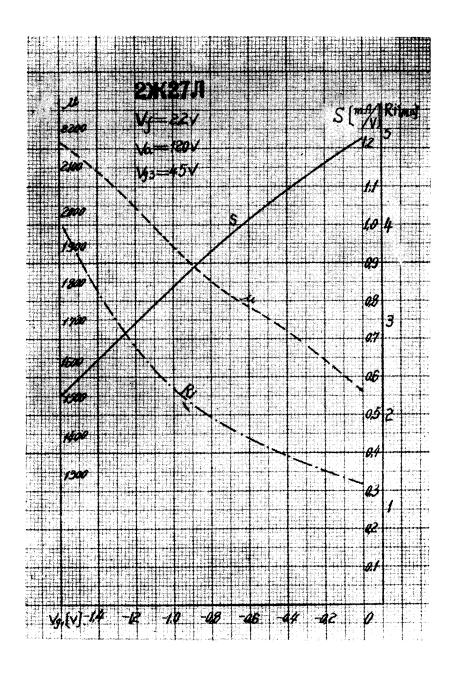


# 2Ж27Л





## 2Ж27Л

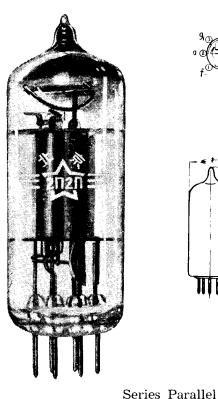


### OUTPUT TETRODE

## $2\Pi 2\Pi$

#### DESCRIPTION

The miniature tube PEKING  $2\Pi 2\Pi$  is a output tetrode with centre-tapped directly heated oxide filament disigned for use as an output power amplifier in battery operated equipment, and having a low filament and h.t. consumption.







FILAMENT
----------

Filament voltage	${ m v_f}$	2.4	1.2	V
Filament current	$I_{\mathbf{f}}$	30	60	mA

#### **CHARACTERISTICS**

(Parrallel filament connection)

Anode voltage	Va	60	V
Grid No. 2 voltage	$\mathrm{Vg}_2$	60	V
Grid No. 1 voltage	Vg <sub>1</sub>	-3.5	V
Anode current	Ia	3.5	mA
Grid No. 2 current	$\lg_2$	0.8	mA
Transconductance	S	1.1	mA /V

### PEKING ELECTRON TUBES



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## $2\Pi 2\Pi$

### OUTPUT TETRODE

series Parallel

OPERATING CONDITIONS
----------------------

(As single tube class A amplifier)

Anode voltage	Va	60	V
Grid No. 2 voltage	$\mathrm{Vg}_2$	60	V
Grid No. 1 voltage	$Vg_1$	-3.5	V
R.M.S. input voltage	$Vg_{12}$	2.5	v
Anode load resistor	$\mathbf{R}\mathbf{l}$	20	$K\Omega$
Anode current	Ia	3.5	mA
Grid No. 2 current	$\mathrm{Ig}_2$	8.0	mA
Power output	Wo	7.5	W
Total harmonic distortion	$\mathrm{D_{tot}}$	10	%

#### **MAXIMUM RATINGS**

Filament voltage	${ m v_f}$	1.8—2.8 0.9—1	l.4 V
Anode voltage	Va max	90	V
Grid No. 2 voltage	$\mathrm{Vg}_2$ max	90	V
Anode dissipation	Wa max	0.4	W
Cathode current	$I_{\mathbf{k}}$ max	7	mA
Grid No. 1 circuit resistor	$Rg_1$ max	0.5	МΩ

### **CAPACITANCES**

Input	$C_{\mathbf{i}}$	3.7	pF
output	Co	3.2	pF
Grid No. 1 to Anode	Cg <sub>1</sub> /a	0.4	pF

Base:

Miniature 7 pin

Weight:

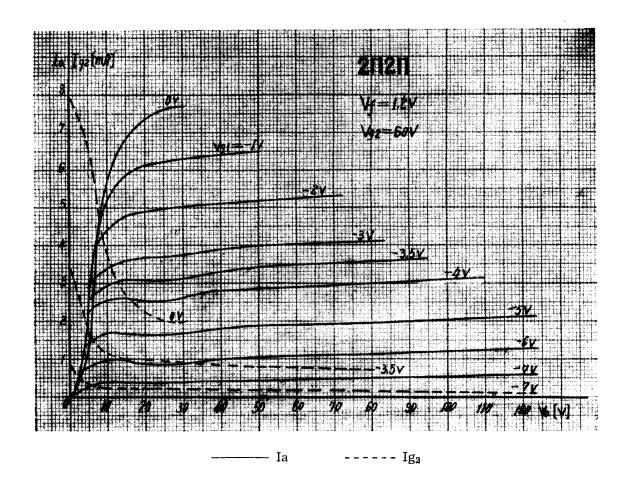
10 g. (approx.)

Mounting: Any

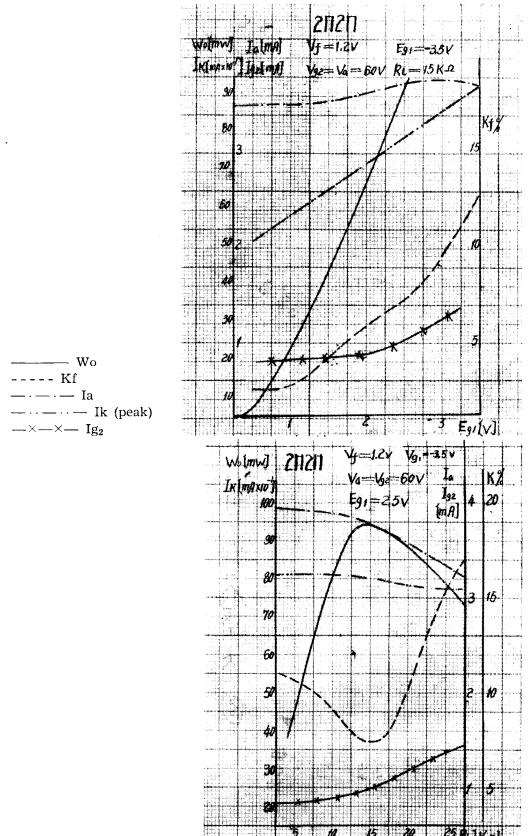


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## $2\Pi 2\Pi$



## $2\Pi 2\Pi$



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## HALF-WAVE RECTIFIER

# 2Ц2С

#### DESCRIPTION

The octal type PEKING 2U2C is a high vacuum half-wave rectifier with indirectly heated oxide cathode, designed for use as high-tension power supply in a.c. main operated equipment.







### **HEATER**

Base:

Weight:

Peak anode current

Mounting: Vertical

Octal

55 g. max

Heater voltage	$v_h$	2.5	V
Heater current	$I_{\mathbf{h}}^{\mathbf{n}}$	1.75	A
CHARACTERISTICS			
Anode voltage	Va	200	V
Anode current	Ia	47.5	mA
OPERATING CONDITIONS			
R.M.S. anode supply voltage	Va∼	4500	v
Load resistor	Rl	0.6	МΩ
Filter capacitor	Cf	0.06	$\mu$ F
D.C. output current	$I_{1}$	> 6.8	mA
MAXIMUM RATINGS			
Heater voltage	$v_h$	2.25-2.75	v
Peak inverse anode voltage	Vpk max	12.5	K.V.

PEKING ELECTRON TUBES



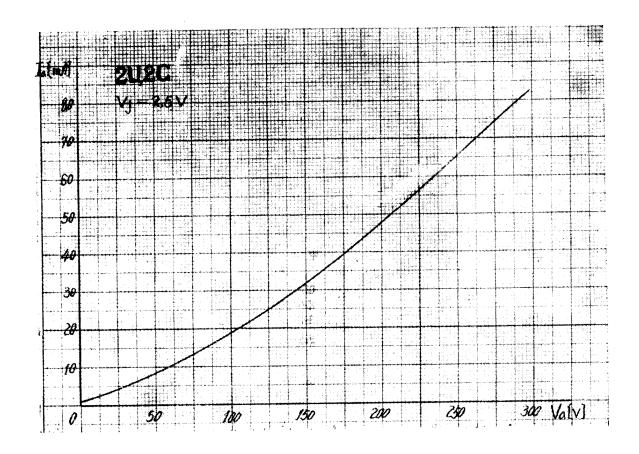
mA

100

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Ipk max

# 2Ц2С

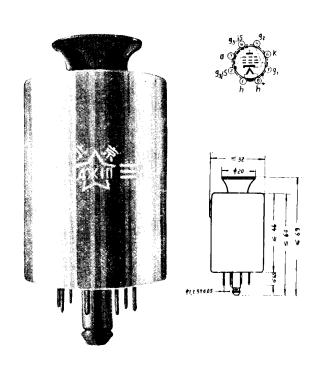


### R. F. PENTODE

## 4Ж1Л

#### DESCRIPTION

The loctal type PEKING 4Ж1Л is a sharp-cutoff pentode with indirectly heated oxide cathode, primarily intended for use as h.f. amplifier or low oscillator drive and is suitable for use at 200 Mc/s.



#### **HEATER**

Heater voltage	$v_h$	4.2	V
Heater current	$I_{\mathbf{h}}$	225	mA
CHARACTERISTICS			
Anode voltage	Va	150	V
Grid No. 2 voltage	$Vg_2$	75	V
Grid No. 1 voltage	$Vg_1$	-2.35	V
Grid No. 3 voltage	$Vg_3$	0	V
Anode current	J <sub>a</sub>	2.0	mA
Grid No. 2 current	$\mathrm{Ig}_2$	< 0.7	mA
Transconductance	S	1.5	mA/V
Internal resistance	$R_{\mathbf{i}}$	>1.0	${ m M}\Omega$
Amplification factor (triode connection at $125 \mathrm{V}/2.5 \mathrm{mA}$ )	$\mu$	20	

### PEKING ELECTRON TUBES



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## 4Ж1Л

### R. F. PENTODE

#### **OPERATING CONDITIONS**

As single tube class A amplifier

H.T. line voltage	Vh.t.	250	V
Anode load resistor	$R_1$	3.5	$K\Omega$
Grid No. 2 circuit resistor	$\mathrm{Rg}_2$	20	$K\Omega$
Cathode bias resistor	$^{ m R}{_{f k}}$	500	Ω
R.M.S. grid No. 1 voltage	Vg <sub>1</sub> ~	2.8	V
Anode current	Ia		mA
Grid No. 2 current	${\rm Ig}_2$		mA
Power output	$W_{o}$	> 0.5	W

#### **MAXIMUM RATINGS**

Heate voltage	${ m v}_{ m h}$	3.6—4.8	V
Anode voltage	Va max	250	V
Grid No. 2 voltage	$Vg_2$ max	225	V
Anode dissipation	Wa max	2	W
Grid No. 2 dissipation	$\mathrm{Wg}_2$ max	0.7	W
Cathode current	$I_{f k}$ max	11	mA
Heater-cathode voltage	${ m V}_{ m hk}$ max	100	V

#### CAPACITANCES

Input	Ci	4.0	pF
Outvut	Co	4.2	pF
Grid No. 1 to anode	Cg <sub>1</sub> /a	< 0.007	pF

Base:

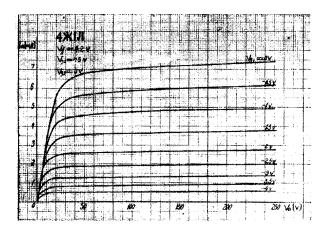
Loctal 8 pin

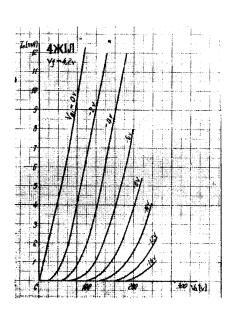
Weight: 35 g.
Mounting: Any



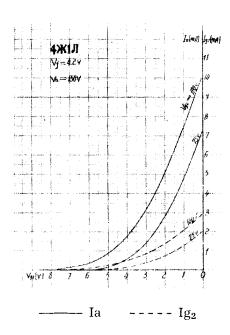
PEKING ELECTRON TUBES

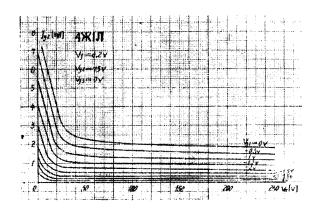
## 4Ж1Л





## 4Ж1Л



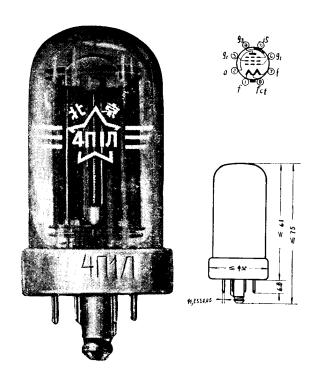


### OUTPUT PENTODE

## 4П1Л

#### DESCRIPTION

The loctal type PEKING 4111/1 is a output pentode with center-tapped directly heated oxide filament, primarily intended for use as h f. power amplifier or oscillator drive and is suitable for use at 200 MC/S.



FILAMENT	Series Parallel		
Filament voltage	$v_{ m f}$	4.2 2.1	V
Filament current	T <sub>f</sub>	325 650	mA
CHARACTERISTICS			
Anode voltage	Va	150	V
Grid No. 2 voltage	$Vg_2$	150	V
Grid No. 3 voltage	$\mathrm{Vg}_3^-$	0	V
Grid No. 1 voltage	$Vg_1$	-7	V
Anode current	Ia	35	mA
Grid No. 2 currentt	Ig.	6.5	mA
Transconductance	S	6	$\mathbf{m}\mathbf{A}/\mathbf{V}$
Anode current (at $Vg_1 = -18 V$ )	Iao	7	mÅ
Amplification factor (triode connec-			
tion at $125V \& 175 V/35mA$ )	$\mu$	9.5	

### PEKING ELECTRON TUBES



### 4П1Л

### OUTPUT PENTODE

Series Parallel

#### **OPERATIONS CONDITIONS**

For power amplifier			
Anode voltage	Va	200	V
Grid No. 2 voltage	$\mathrm{Vg}_2$	150	V
Grid No. 3 voltage	$Vg_3$	+15	V
Grid No. 1 voltage	$Vg_1$	-20	V
R.M.S. grid No. 1 voltage	$Vg_{1}$	18	V
Anode current	Ia	50	mA
Grid No. 2 current	$\mathrm{Ig}_2$	10	mA
Grid No. 1 current	$Ig_1$	≈1	mA
Power output	Wo	4.2	W
Frequency	${f f}$	12	MC/S

#### **MAXIMUM RATINGS**

Filament voltage	Vf	3.9—4.7 1.95—2	.35 V
Anode voltage	Va max	250	V
Grid No. 2 voltage	$\mathrm{Vg}_2$ max	250	V
Anode dissipation	Pa max	7.5	W
Grid No. 2 dissipation	$\mathrm{Pg}_2$ max	1.5	W
Cathode current	Ik max	50	mA
Grid No. 1 circuit resistor	Rg <sub>1</sub> max	0.5	$M\Omega$
Grid No. 3 circuit resistor	$\mathrm{Rg}_3$ max	0.1	$M\Omega$

#### **CAPACITANCES**

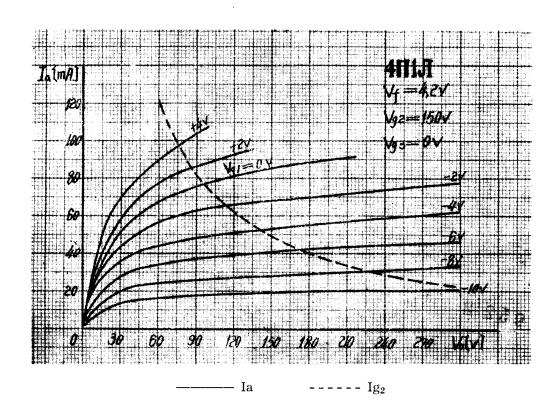
Input	Ci	8.5	pF
Output	Co	9.4	pF
Grid No. 1 to anode	$Cg_1$ a	< 0.1	рF

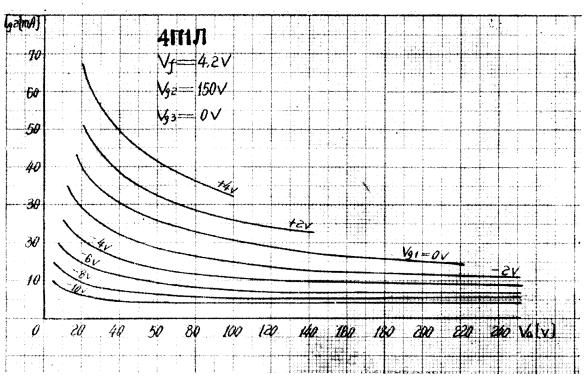
Base: Loctal 8 pin
Weight: 30 g. max

Mounting: Any



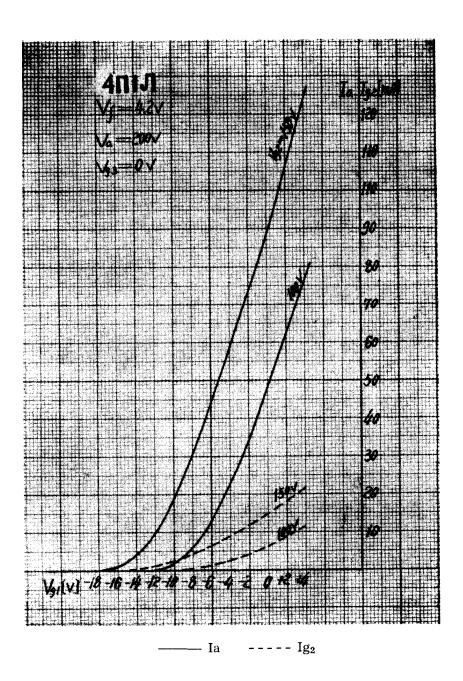
## 4П1Л





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## 4П1Л



### **HEPTODE**

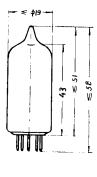
## 6A2Π

#### DESCRIPTION

The miniature tube PEKING 6A2II is a heptode with indirectly heated oxide cathode designed for use as a mixeroscillator in a.c. mains operated receivers.







#### **HEATER**

Heater voltage	$v_h$	6.3	V
Heater current	Ih	300	mA
OPERATING CHARACTERISTICS*			
Anode voltage	Va	250	V
Grids No. 2 & No. 4 voltage	$Vg_{2}+g_{4}$	100	V
Grid No. 3 voltage	$Vg_3$	-1.5	V
Grid No. 1 circuit resistance	$\operatorname{Rg}_{1}^{"}$	20	$\mathrm{K} \Omega$
Anode current	Ia	3.0	mA
Grids No. 2 & No. 4 current	$Ig_{2} + g_{4}$	7.0	mA
Grids No. 1 current	$Ig_1$	0.5	mA
Total cathode current	$I_{\mathbf{k}}$	10.5	mA
Conversion transconductance	Sc	0.47	mA V
Oscillation transconductance	So	6.0	mA/V
Internal resistance	$R_i$	1.0	MΩ

<sup>\*</sup> The characteristics shown with separate excitation correspond very closely to those obtained in a self-excited oscillator circuit operating with zero bias.

### PEKING ELECTRON TUBES



### **6A2**Π

### **HEPTODE**

2.8

0.3

pF

рF

#### **MAXIMUM RATINGS**

Heater voltage	$v_h$	5.7 - 6.9	V
Anode voltage	Va max	330	V
Grids No. 2 & No. 4 voltage	$Vg_{2+}g_{4}$ max	100	V
Grid No. 3 voltage	$Vg_3$ max	-50	V
Anode dissipation	Wa max	1.1	W
Grids No. 2 & No. 4 dissipation	$\mathrm{Wg}_{2+}\mathrm{g}_{3}$ max	1.1	W
Cathode current	$\Gamma_{f k}$	14	mA
Heater-cathode voltage	V <sub>hk</sub> max	$\pm 100$	V
CAPACITANCES			
Signal input	Ci (g <sub>3</sub> )	7.2	pF
Mixer output	Co	8.5	pF

 $Ci (g_1)$ 

 $Cg_3/a$ 

Base:

Miniature 7 pin

Weight: 12 g.

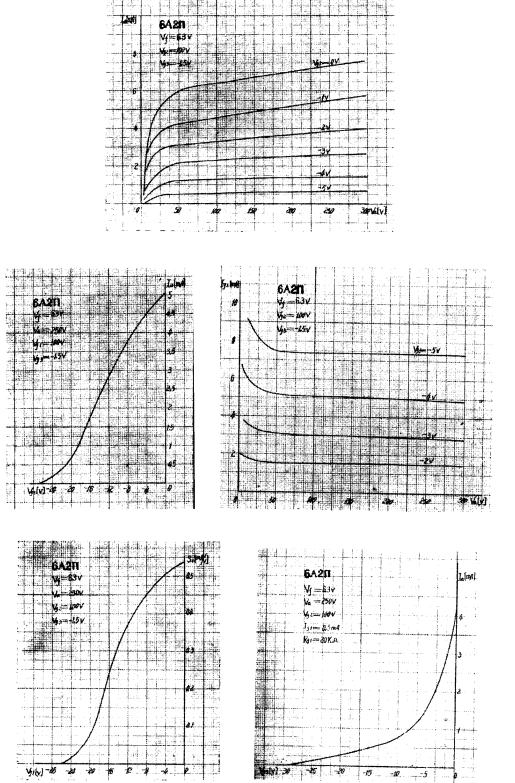
Mounting: Any

Oscillator input

Grid No. 3 to anode

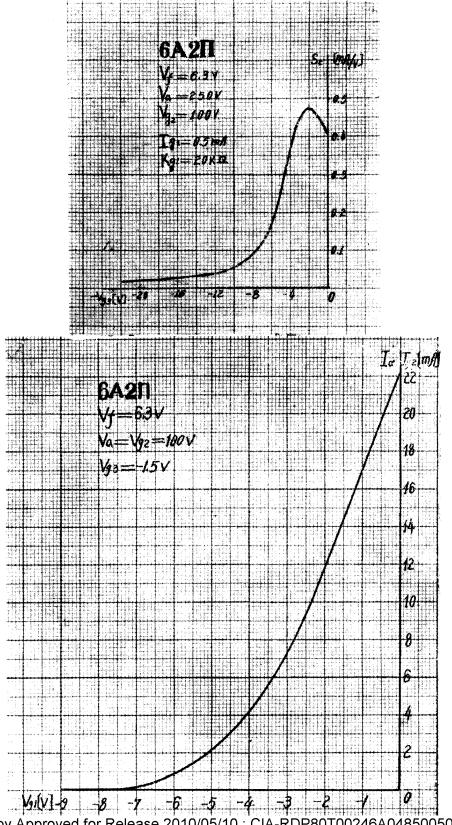


### 6А2П



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## **6A2**Π



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### R. F. PENTODE

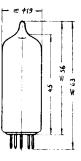
## 6К4П

#### DESCRIPTION

The miniature tube PEKING 6K4II is a remote-cutoff pentode with indirectly heated oxide cathode designed for use as h.f. or i.f. amplifier in a.c. mains operated receivers.







#### **HEATER**

Heater voltage	$v_{\mathbf{h}}$	6.3	V
Heater current	$I_{\mathbf{h}}$	300	mA
CHARACTERISTICS			
Anode voltage	Va	250	V
Grid No. 2 voltage	$\mathrm{Vg}_2$	100	V
Cathode bias resistor	$R_{f k}$	68	Ω
Anode current	Ia	10	mA
Grid No. 2 current	$\lg_2$	<b>≤</b> 5.5	mA
Transconductance	S	4.4	mA/V
Grid No. 1 Bias (Approx.)  for transconductance of 40 $\mu$ A/V.	Vø.	20	V

### PEKING ELECTRON TUBES



### 6К4П

### R. F. PENTODE

#### **MAXIMUM RATINGS**

Heater voltage	$v_h$	5.7-6.9	V
Anode voltage	Va max	300	V
Grid No. 2 voltage	$\mathrm{Vg}_2$ max	125	V
Anode dissipation	Wa max	3.0	W
Grid No. 2 dissipation	$\mathrm{Wg}_2$ $\mathrm{max}$	0.6	W
Cathode current	$I_{f k}$ max	20	mA
Grid No. 1 circuit resistor	Rg <sub>f</sub> max	500	$K\Omega$
Heater—cathode voltage	$V_{f hk}$ max	$\pm 90$	V

#### **CAPACITANCES**

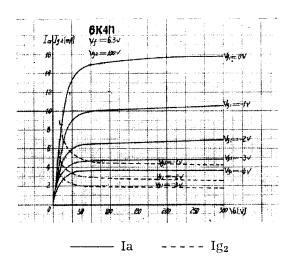
input	Ci	6.0	рF
output	Co	6.3	pF
Grid No. 1 to anode	Vg <sub>1</sub> /a	$\leq 0.0045$	рF

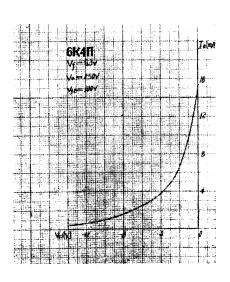
Base: Miniature 7 pin

Weight: 13 g.
Mounting: Any

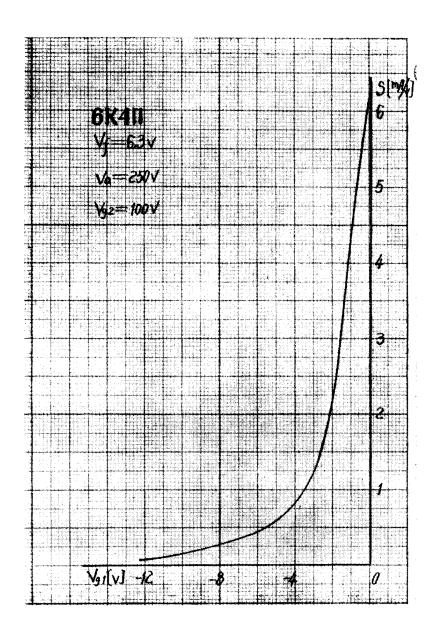


## 6К4П





## 6К4П

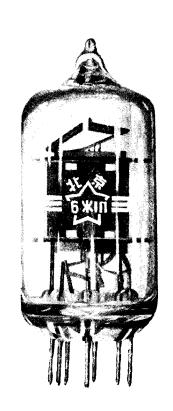


### R. F. PENTODE

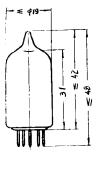
## 6Ж1П

#### **DESCRIPTION**

The miniature tube PEKING 65K1 is a sharp-cutoff pentode with indirectly heated oxide cathode designed for use as wide-band or v.h.f. amplifier of frequencies up to 400 Mc/s. in a.c. mains operated equipment.







#### **HEATER**

${ m v_h}$	6.3	v
$I_{\mathbf{h}}$	170	mA
Va	120	v
$\mathrm{Vg}_2$	120	v
$\mathrm{R}_{\mathbf{k}}$	200	Ω
Ia	7.35	mA
${\rm Ig}_2$	$\leq 3.2$	mA
S	5.2	m <b>A</b> /V
$R_i$	0.3	МΩ
Req	1.8	$K\Omega$
	$egin{array}{lll} I_h & & & & & & & & & & & & & & & & & & &$	$\begin{array}{cccc} I_h & & 170 \\ & Va & & 120 \\ Vg_2 & & 120 \\ R_k & & 200 \\ Ia & & 7.35 \\ Ig_2 & & \leq 3.2 \\ S & & 5.2 \\ R_i & & 0.3 \\ \end{array}$

### PEKING ELECTRON TUBES



### 6Ж1П

### R. F. PENTODE

#### **MAXIMUM RATINGS**

Heater voltage	$v_h$	5.7-6.9	V
Anode voltage	Va max	200	V
Grid No. 2 voltage	$\mathrm{Vg}_2$ $\mathrm{max}$	150	V
Anode dissipation	Wa max	1.8	W
Grid No. 2 dissipation	$\mathrm{Pg}_2$ max	0.55	W
Cathode current	I <sub>k</sub> max	20	mA
Grid No. 1 circuit resistor	Rg <sub>1</sub> max	1.0	ΜΩ
Heater—cathode voltage	$V_{\mathbf{k}\mathbf{h}}$	$\pm 120$	V

#### **CAPACITANCES**

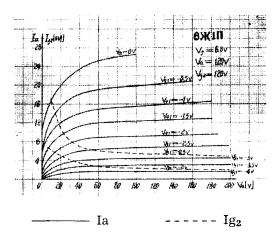
input	Ci	4.3	pF
output	Co	2.35	pF
Grid No. 1 to anode	$Cg_1$ a	$\leq 0.02$	рF

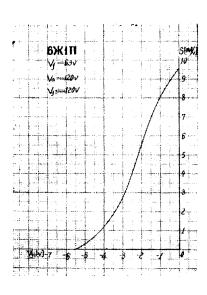
Base: Miniature 7 pin
Weight: 15 g. (approx.)

Mounting: Any

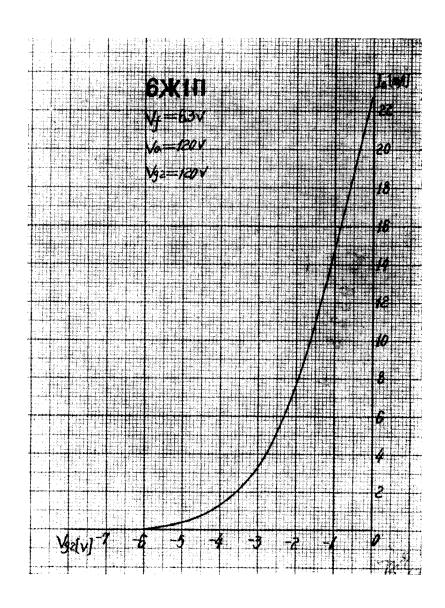


## 6Ж1П





## 6Ж1П



## TWIN TRIODE

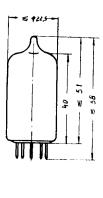
## 6Н1П

#### DESCRIPTION

The miniature tube PEKING 6H1Π is a medium-mu twin triode with indirectly heated separate oxide cathodes, primarily intended for use as an a.f. voltage amplifier or phase inverter in a.c. mains operated equipment.







#### **HEATER**

Heater voltage	$v_h$	6.3	V
Heater current	$I_{\mathbf{h}}$	600	mA
CHARACTERISTICS (each section)			
Anode voltage	Va	250	V
Cathode bias resistor	$\mathrm{R}_{\mathbf{k}}$	600	Ω
Anode current	Ia	7.5	mA
Transconductance	S	4.35	mA/V
Amplification factor	$\mu$	35	
Internal resistance	$\mathrm{R_{i}}$	8.0	KU

## PEKING ELECTRON TUBES



## 6Н1П

### TWIN TRIODE

#### MAXIMUM RATINGS (each section)

Heater voltage	$\mathrm{v_h}$	5.7-6.9	V
Anode voltage	Va	300	v
Anode dissipation	Wa	2.2	W
Cathode current	${\rm I}_{\bf k}$	25	mA
Grid circuit resistor	Rg	1.0	M U
Heater—cathode voltage	$v_{hk}$	+100 250	V V

#### **CAPACITANCES**

Input (each section)	Ci	3.1	pF
Output (each section)	Co	1.85	pF
Grid to anode (each section)	Cg/a	<b>≤</b> 2.7	pF
Anode No. 1 to anode No. 2	$\mathrm{Ca_1/a_2}$	$\leq 0.2$	pF

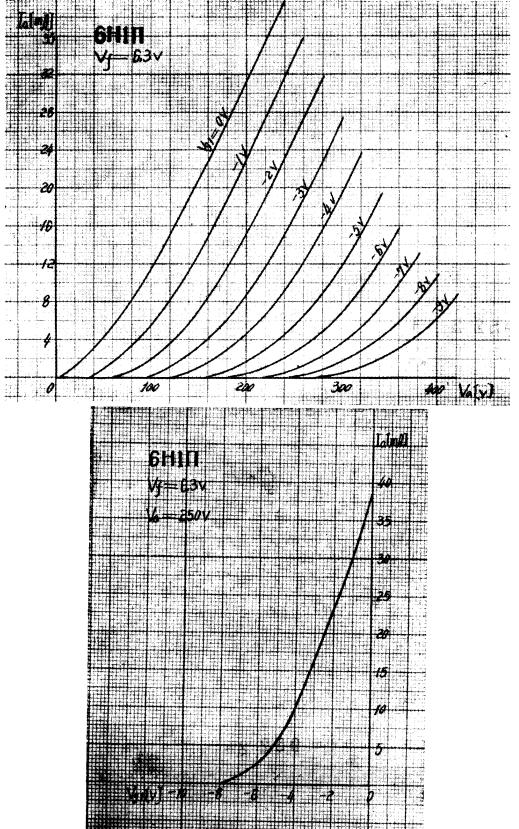
Base: Miniature 9 pin

Weight: 15 g.

Mounting: Any

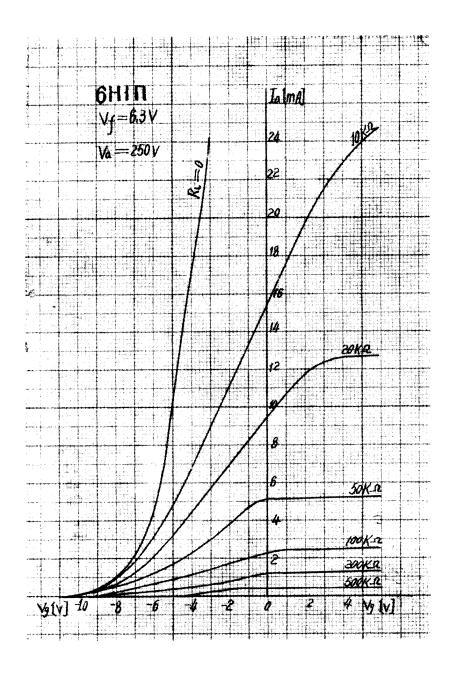


### 6Н1П



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## 6Н1П



### TWIN TRIODE

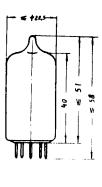
## 6Н2П

#### DESCRIPTION

The miniature tube PEKING 6H2∏ is a high-mu twin triode with indirectly heated separate oxide cathodes, primarily intended for use as an a.f. voltage amplifier or phase inverter in a.c. mains operated equipment.







### **HEATER**

	• • •	•	
Heater voltage	$v_{\mathbf{h}}$	6.3	$\cdot \mathbf{v}$
Heater current	$I_{\mathbf{h}}$	340	mA
CHARACTERISTICS (each section)			
Anode voltage	Va	250	V
Grid voltage	Vg	-1.5	V
Anode current	Ia	2.3	mA
Transconductance	S	2.1	mA/V
Amplification factor	$oldsymbol{\mu}$	97.5	
Internal resistance	$R_i$	46.5	KΩ
MAXIMUM RATINGS (each section	on)		
Heater voltage	Vh	5.7-6.9	v
Anode voltage	Va	300	V
Anode dissipation	Wa	1	W
Cathode current	$^{ m I}{f k}$	10	mA
Grid circuit resistor	$\operatorname{Rg}$	0.5	МΩ
Heater-cathode voltage	$\rm V_{\bf hk}$	$\pm 100$	v

### PEKING ELECTRON TUBES



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## 6Н2П

### TWIN TRIODE

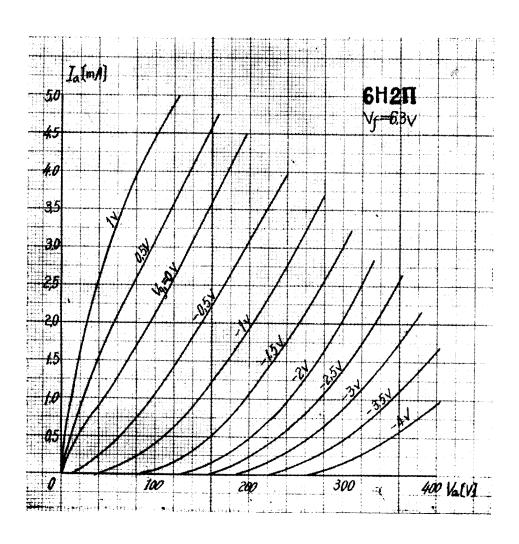
#### **CAPACITANCES**

Input (each section)	Ci	2.35	рF
Output (1st section)	$Co_1$	2.95	pF
Output (2nd section)	$\mathrm{Co}_2$	3.15	pF
Grid to anode (each section)	$\mathrm{Ca_1/a_2}$	$\leq 0.3$	pF
Anode No. 1 to anode No. 2	Cg/a	<b>≤</b> 0.7	рF

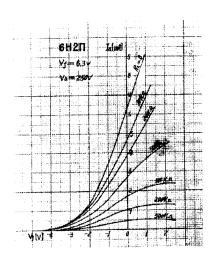
Base: Miniature 9 pin
Weight: 15 g. (approx.)

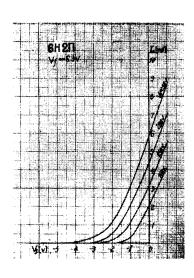
Mounting: Any

## 6Н2П



## 6Н2П



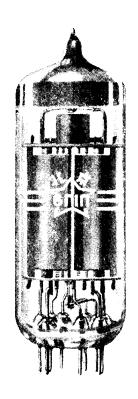


### BEAM TETRODE

### 6П1П

#### DESCRIPTION

The miniature tube PEKING  $6\Pi 1\Pi$  is a beam tetrode with indirectly heated oxide cathode, primarily intended for use as an output power amplifier in a.c. mains operated equipment.







#### **HEATER**

Heater voltage	Vh	6.3	V
Heater current	Ih	500	mA
CHARACTERISTICS			
Anode voltage	Va	250	V
Grid No. 2 voltage	$Vg_2$	250	v
Grid No. 1 voltage	$Vg_1$	-12.5	v
Anode current	Ia	44	mA
Grid No. 2 current	${\rm Ig}_2$	<b>≤</b> 7.0	mA
Transconductance	S	4.9	mA/V
Internal resistance	R;	50	кΩ

### PEKING ELECTRON TUBES



### 6П1П

### BEAM TETRODE

### **OPERATING CONDITIONS**

(As single tube class A amplifier)	Va	250	V
Plate voltage	va	450	V
Grid No. 2 voltage	$Vg_2$	250	V
Grid No. 1 voltage	$Vg_1$	-12.5	V
R.M.S. input voltage	Vg <sub>1</sub> ~	8.8	V
Anode load resistor	$R_1$	5.0	КΩ
Anode current	Ia	44	mA
Grid No. 2 current	$\mathrm{Ig}_2$	7.0	mA
Power output	Wo	- 4	W
Total harmonic distortion	$D_{tot}$	14	%

#### **MAXIMUM RATINGS**

Heater voltage	$V_{\mathbf{h}}$	5.76.9	V
Anode voltage	Va max	250	V
Grid No. 2 voltage	$Vg_2$ max	250	V
Anode dissipation	Wa max	12 .	W
Grid No. 2 dissipation	$\mathrm{Wg}_2$ max	2.2	W
Cathode current	$I_{f k}$ max	70	mA
Grid No. 1 circuit resistor	Rg <sub>1</sub> max	0.5	$M\Omega$
Heater-cathode voltage	$V_{f h k}$ max	100	v

Base:

Miniature 9 pin

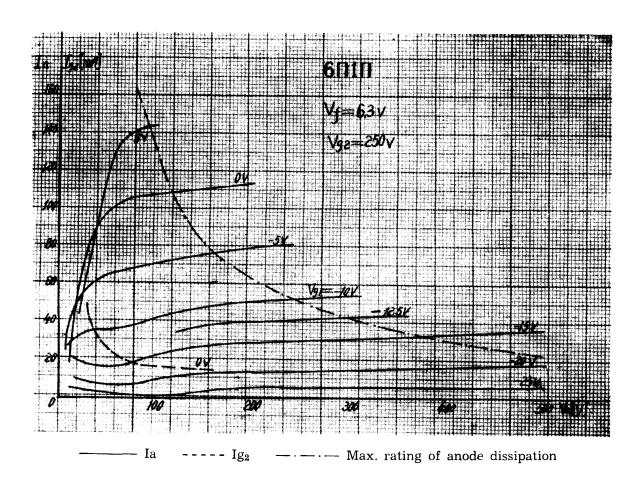
Weight: 16 g. (max.)

Mounting: Any



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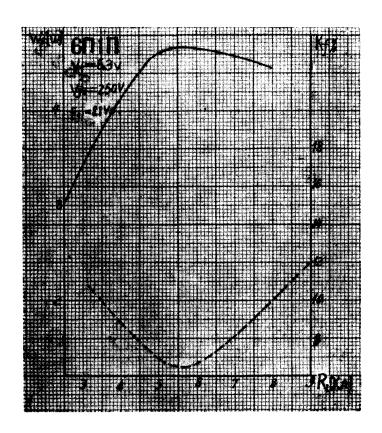
## 6П1П

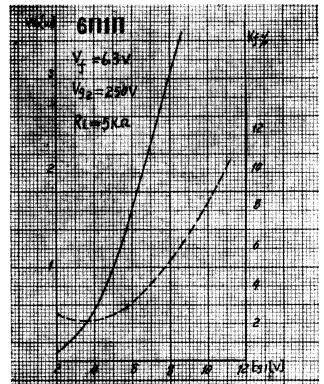


# 6П1П

---- Kf

- Wo





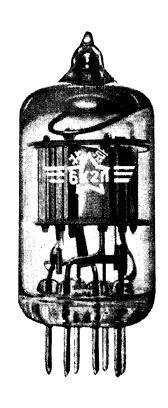
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### TWIN DIODE

## 6X2Π

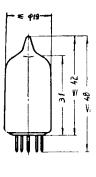
#### DESCRIPTION

The miniature tube PEKING  $6X2\Pi$  is a twin diode with indirectly heated separated oxide cathodes, primarily intended for use as a detector of a.m. or f.m. signals and suitable for low power rectifier in a.c. mains operated receivers.



6.3





V

#### **HEATER**

Heater voltage

D.C. output voltage

Heater current	I <sub>h</sub>		30	0		mA
CHARACTERISTICS						
R.M.S. anode supply voltage	Va ∼		$2 \times$	150		V
Load resistor	$R_l$		1	0		$K\Omega$
Filter capacitor	$C_{\mathbf{f}}$		;	В		$\mu$ F
D.C. output current	$I_1$		≥	17		mA
OPERATING CONDITIONS						
R.M.S. anode supply voltage	Va∼ :	2×100	$2 \times 125$	2×150	2×170	v
Filter capacitor	$\mathrm{C_f}$	8	8	8	8	$\mu F$
Minimum limiting resistor (per plate)	R <sub>lim mir</sub>	130	250	350	430	Ω
D.C. output current	$I_{\mathbf{l}}$	20	20	20	20	mA

 $V_1$ 

115

140

 $V_h$ 

### PEKING ELECTRON TUBES



170

195

V

### 6X2Π

### TWIN DIODE

Note: The value of R<sub>lim min</sub> is calculated from:

 $Rlim\ min = Rt + Rlim$ 

 $R_t = Rs + N^2 Rp$ 

where  $R_t$ =d.c. resistance contributed at each anode of the rectifier by the transformer.

Rs=d.c. resistance of the turns on each half secondary.

Rp=d.c. resistance of the turns on primary.

N=ratio of the turns on half of the secondary to the primary, (may be taken as the voltage ratio)

 $R_{lim}$  =limiting resistor. (if  $R_t$  is less than  $R_{lim\ min,\ }R_{lim\ }$  must be added at each anode circuit)

#### **MAXIMUM RATINGS**

Heater voltage	$v_h$	5.7-6.9	V
Peak inverse anode voltage	Vpk max	450	V
D.C. output current	I <sub>l</sub> max	20	mA
Peak anode current	Ipk max	90	mA
Heater—cathode voltage	V <sub>hk</sub> max	$\pm 350$	V

#### **CAPACITANCES**

Anode to cathode, heater, internal and external shield (each diode)	$Ca/k+h+S_i+Se$	3.4	pF
Cathode to anode, heater, internal and external shield (each diode)	Ck/a+h+S <sub>i</sub> +Se	3.8	pF
Anode No. 1 to anode No. 2	$Ca_1/a_2$	$\leq 0.03$	pF
Cathode to heater	Ck/h	<b>≤</b> 4	pF

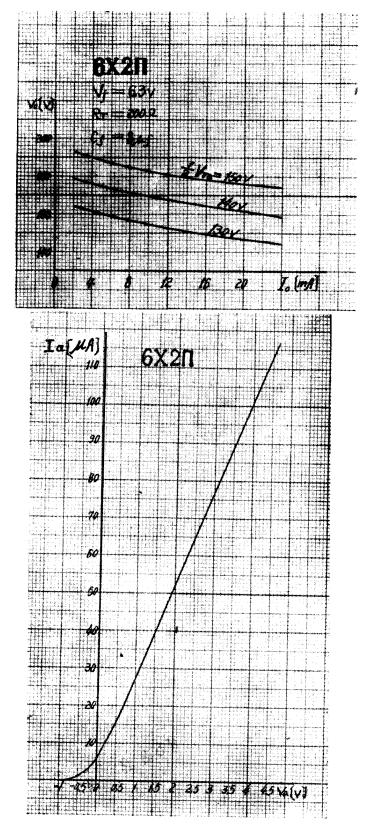
Base: Miniature 7 pin

Weight: 10 g. (max.)

Mounting: Any

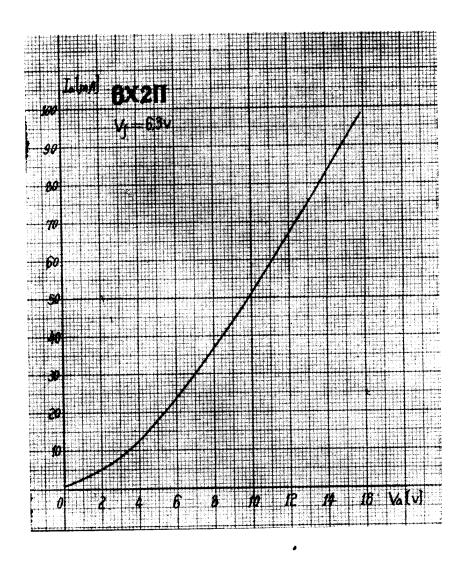


## 6X2Π



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# 6X2Π

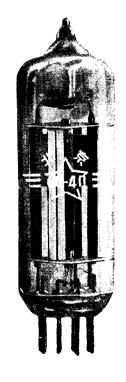


## FULL-WAVE RECTIFIER

# 6Ц4П

#### DESCRIPTION

The miniature tube PEKING 6U4II is a full-wave rectifier with indirectly heated oxide cathode designed as power rectifier for use in a.c. mains operated receivers.







HEATER	HE	A	Т	$\mathbf{E}$	R
--------	----	---	---	--------------	---

Heater voltage	$V_{ m h}$		6.3			V.
Heater current	$I_{\mathbf{h}}$		600			mΑ
CHARACTERISTICS						
R.M.S. anode supply voltage	Va∼		2 imes350			V
Load resistor	$R_1$		5200			$\dot{\Omega}$
Filter capacitor	$C_{\mathbf{f}}^{1}$		8			$\mu \mathrm{F}$
D.C. output current	$I_1$		≥72			mA
OPERATING CONDITIONS						
R.M.S. anode supply voltage	Va∼	2×200	$2 \times 300$	$2\times350$	$2 \times 400$	V
Filter capacitor	$\mathrm{C_f}$	8	8	8	8	$_{\mu \mathrm{F}}$
Minimum limiting resistor (per plate)	Rlim	min 100	200	300	400	Ω
D.C. output current	$I_1$	75	75	75	75	mA
D.C. output voltage	$\hat{\mathbf{v}}_1$	205	310	360	415	V

PEKING ELECTRON TUBES



## 6Ц4П FULL-WAVE RECTIFIER

Note: The value of Rlim min is calculated from:

Rlim min = Rt + Rlim

 $R_t = R_S + N^2 R_p$ 

where  $R_t$ =d.c. resistance contributed at each anode of the rectifier by the transformer.

Rs=d.c. resistance of the turns on each half secondary.

Rp=d.c. resistance of the turns on primary.

N=ratio of the turns on half of the secondary to the primary, (may be taken as the voltage ratio)

 $R_{lim}$  limiting resistor. (if  $R_t$  is less than  $R_{lim\ min,}$   $R_{lim}$  must be added at each anode circuit)

#### **MAXIMUM RATINGS**

Heater voltage	$v_h$	5.7-6.9	V
Peak inverse anode voltage	Vpk max	1000	V
D.C. output current	I <sub>1</sub> max	75	mA
Peak anode current	Ipk max	300	mA
Heater-cathode voltage	V <sub>hk</sub> max	$\pm 400$	V

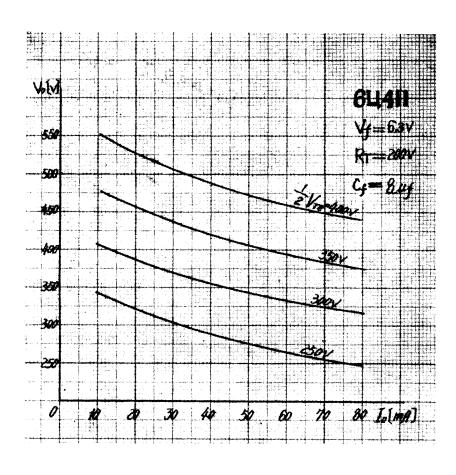
Base: Miniature 7 pin

Weight: 10 g. (max.)

Mounting: Any

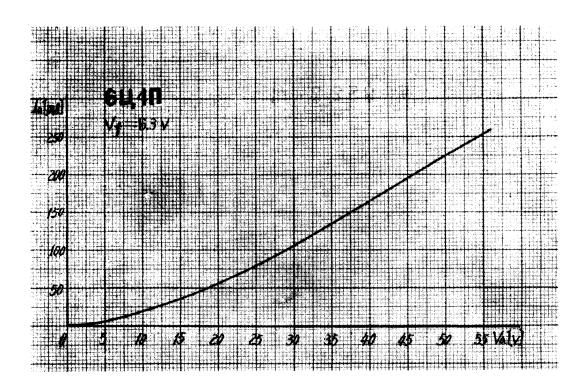


# 6Ц4П



Sanitized Copy Approved for Release 2010/05/10 : CIA-RDP80T00246A048500500001-8

# 6Ц4П

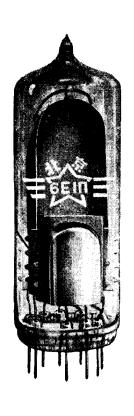


### TUNING INDICATOR

## 6E1Π

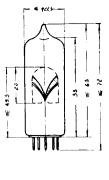
#### DESCRIPTION

The miniature tube PEKING 6E1II is a electron beam tube with indirectly heated oxide cathode designed for use as tuning indicator in f.m. or a.m. receivers or as a level indicator in tape recorders.



 $v_h$ 





6.3

#### **HEATER**

Heater voltage

b	11		
Heater current	$I_{\mathbf{h}}$	300	mA
CHARACTERISTICS			
Anode voltage	Va	100	V
Target voltage	$v_{tg}$	250	v
Grid voltage	Vg	-2	V
Anode current	Ia	2	mA
Target current	Itg	<4	m <b>A</b>

### PEKING ELECTRON TUBES



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### 6E1Π

### TUNING INDICATOR

#### **OPERATING CONDITIONS**

H.T. line voltage	Vh.t.	250	V
Target voltage	$V_{tg}$	250	V
Anode load resistor	Rl	0.5	МΩ
Grid circuit resistor	$\mathrm{Rg}_{1}$	0.1	MΩ
Target current	$\mathtt{T}_{tg}$	<4	mA
Grid voltage:			
for maximum sradow angle	Vg max	0	V
for minimum shadow angle	Vg min	-15	V

#### **MAXIMUM RATINGS**

Heater voltage	$v_h$		
Anode voltage	Va max	250	V
Target voltage (max.)	$v_{tg}$ max	250	v
Target voltage (min.)	${ m V}_{ m tg}$ min	150	V
Anode dissipation	Wa max	0.2	W
Grid circuit resistor	Rg max	3	${ m M}\Omega$
Heater—cathode voltage	V <sub>hk</sub> max	$\pm 100$	V

Base: Miniature 9 pin

Weight: 14 g. (max.)

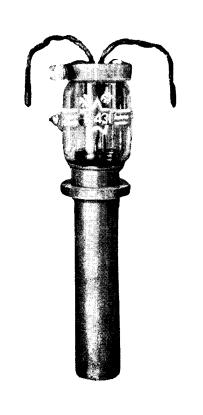
Mounting: Any



TRIODE  $\Gamma$ -431

#### DESCRIPTION

The transmitting tube PEKING  $\Gamma$ -431 is a water and forced-air cooled triode with derectly heated tungsten filament and is designed for an anode dissipation of 20 kw. It can be employed as high-power broadcast and industrial h.f. heating application.





#### **FILAMENT**

Filament voltage	${ m v_f}$	22	V
Filament current	$\mathtt{I}_{\mathbf{f}}$	102	A

#### **CHARACTERICTICS**

Filament cold resistance	$R_{\mathbf{f}}$	0.018	Ω
Cathode emission	$I_{\mathbf{k}}$	12	A
Transconductance (5kv/3A)	S	12	mA/V
Amplification factor (5 & $10 kv/1A$ )	$\mu$	50	
Hormal power output of frequency up to 6 MC/S	Wo	30	KW

### PEKING ELECTRON TUBES



 $\Gamma$ -431 TRIODE

#### **MAXIMUM RATINGS**

Filament voltage		Vf max	22	V
Filament starting cu	rrent	I <sub>f st. max</sub>	155	Α
Anode voltage:				
at frequency up	to 6 MC/S	Va max	15	KV
at frequency up	to 12 MC/S	Va max	11	KV
at frequency up	to 25 MC/S	Va max	7.5	KV
Anode dissipation		Wa max	20	KW
Frequency		f max	25	MC/S

#### **CAPACITANCES**

Input	Ci	25	pF
Output	Co	1.5	pF
Grid to anode	Cg/a	23	pF

#### **COOLING**

Anode: by circulating water, 30 liters/min

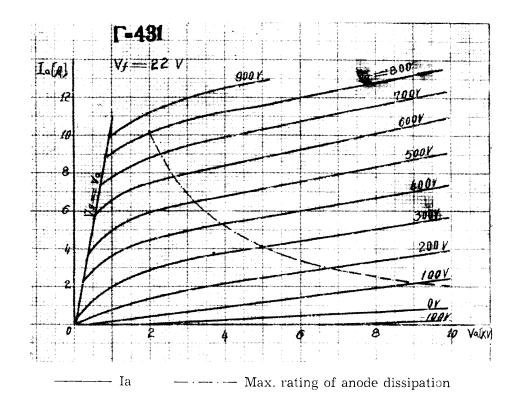
Buld: by forced air, 80 m<sup>3</sup>/hour

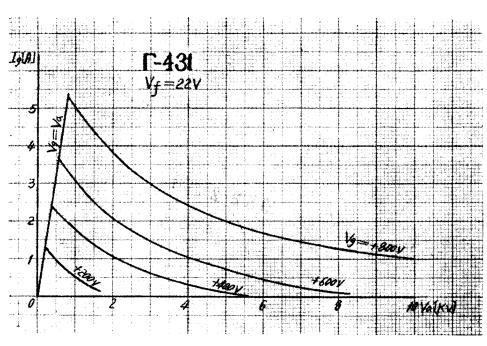
Weight: 5 kgs. (max.)

Mounting: Vertical, anode down

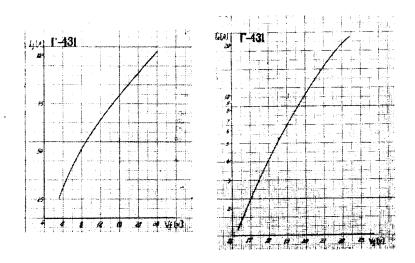


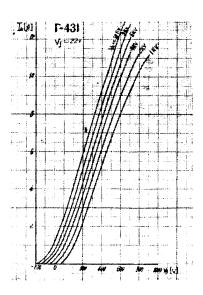
# Γ-431





# Γ-431



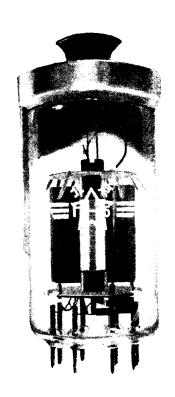


### **PENTODE**

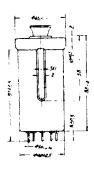
ГУ-15

#### **DESCRIPTION**

The transmiting tube PEKING  $\Gamma$ V-15 is a h.f. pentode with centre-tapped directly heated oxide filament, and designed for use as h.f. power amplifier or oscillator for frequencies up to 60 MC/S.







#### **FILAMENT**

Filament voltage	${ m v_f}$	4.4	v
Filament current	$\mathtt{I}_{\mathtt{f}}$	0.68	Α
CHARACTERISTICS			
Anode voltage	<b>⊽</b> a	220	V
Grid No. 3 voltage	$\mathrm{Vg}_3$	0	V
Grid No. 2 voltage	$\mathrm{Vg}_2$	200	V
Grid No. 1 voltage	$\mathrm{Vg}_1$	-14	v
Anode current	Ia	50	mA
Grid No. 2 current	$\mathrm{Ig}_2$	<7.5	mA
Transconductance	S	4.7	mA/V
Grid No. 1 voltage (at Ia=2 mA)	$Vg_1$ '	-31	v





### **PENTODE**

OPERATING CONDITIONS	
For Clace C Amplifier	

Anode voltage	Va	350	V
Grid No. 3 voltage	$\mathrm{Vg}_3$	200	V
Grid No. 2 voltage	$\mathrm{Vg}_2$	200	V
Grid No. 1 voltage	$Vg_1$	-25	V
R.M.S. grid No. 1 exciting voltage	Vg <sub>1</sub> ~	26	V
Total cathode current	$I_{\mathbf{k}}$	<b>≤</b> 85	mA
Grid No. 1 current	Ig <sub>1</sub>	<b>≤</b> 1.5	mA
Grid No. 2 current	$\mathrm{Ig}_2$	<b>≤</b> 13	mA
Power output	Wo	>12	W
Frequency	$\mathbf{f}$	6	MC/S

#### **MAXIMUM RATINGS**

Filament voltage	$V_{\mathrm{f}}$	4.0—4.8	V
Anode voltage	Va max	400	V
Grid No. 2 voltage	Vg, max	250	V
Anode dissipation	Wa max	15	W
Grid No. 2 dissipation	$\mathrm{Wg}_2$ $\mathrm{max}$	4	W
Grid No. 1 dissipation	Wg <sub>1</sub> max	0.4	W
Total cathode current	I <sub>k</sub> max	85	mA
Frequency	f max	60	MC/S

#### **CAPACITANCES**

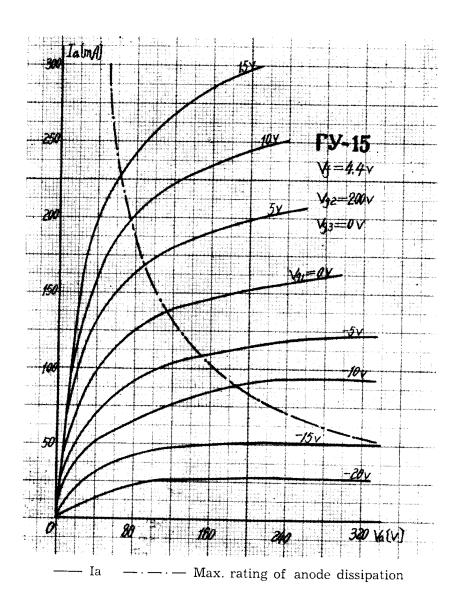
Input	Ci	10.5	рF
Output	Co	12.5	рF
Grid No. 1 to plate	Cg <sub>1</sub> /a	< 0.16	pF

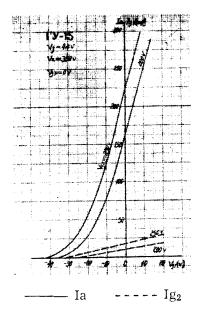
Base: Special 8-pin. (See drawing)

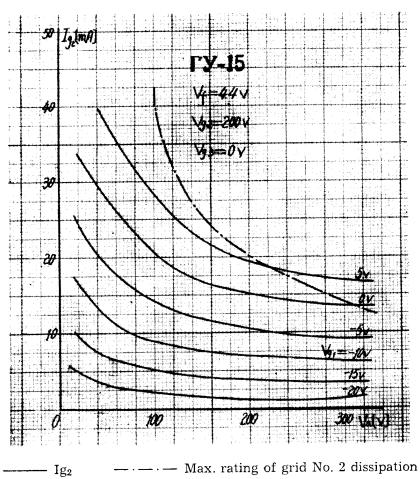
Weight: 100 gs. (max.)

Mounting: Vertical, base down







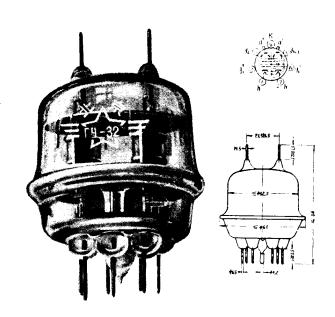


### TWIN TETRODE

ГУ-32

#### **DESCRIPTION**

The transmitting tube PEKING ΓУ-32 is a u.h.f. twin-unit beam power tetrode with a indectly heated oxide cathode, centre-tapped heater, and two carbonized nickel anodes. Particularly suitable for class C amplifier telegraph or plate-modulation telephone at u.h.f.



HEATER		Series	Parallel	
Heater voltage	$V_{\mathbf{h}}$	12.6	6.3	V
Heater current	$I_h$	8.0	1.6	A
CHARACTERISTICS (Each unit)				
Anode voltage	<b>V</b> a		250	v
Grid No. 2 voltage	$\mathrm{Vg}_2$		130	V
Grid No. 1 voltage	$Vg_1$		-10	V
Anode current	Ia		30	mA
Grid No. 1 current	$Ig_1$		< 5.5	mA
Transconductance	S		3.5	mA/V
Amplification factor $(g_1 \text{ to } g_2)$	$\mu$		7	

Note: With grid No. 1 voltage of -100 volts on unit not under test.

### PEKING ELECTRON TUBES



### TWIN TETRODE

#### TYPICAL OPERATION

For push-pull self-excited oscillator			
Anode voltage	Va	400	V
Grid No. 2 voltage	$Vg_2$	250	V
Total Anode current	Ia	90	mA
Total Grid No. 2 current	$\lg_2$	<11	mA
Total Grid No. 1 current	$Ig_1$	2 to 6	mA
Grid No. 1 circuit resistor	$Vg_1$	8 to 18	$K\Omega$
Frequency	f	200	MC/S

MAXIMUM RATINGS	Series	Parallel	
Heater voltage	V <sub>h</sub> 11.4—14	4 5.7—7.0	V
Anode voltage	Va max	500	V
Grid No. 2 voltage	$\mathrm{Vg}_2$ max	250	V
Anode dissipation	Wa max	15	W
Grid No. 2 dissipation	$\mathrm{Wg}_2$ max	5	W
Heater—cathode voltage	${ m V_{hk}}$ max	100	V
Frequency	${ m I}_{f k}$ max	200	MC/S
Bulb temperature	T <sub>b</sub> max	$200\degree$	C

#### CAPACITANCES

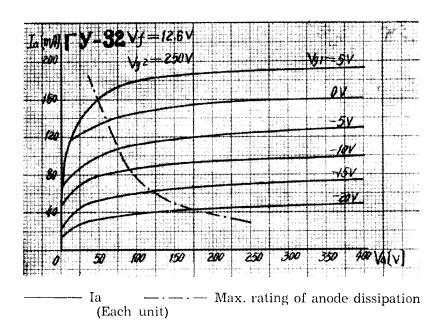
Input	Ci	7.8	рF
Output	Co	3.8	pF
Grid No. 1 to plate	Cg./a	< 0.05	$^{\mathrm{pF}}$

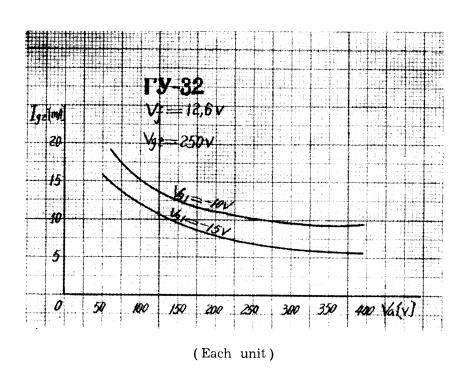
Base: Medium Molded-Flare 7-pin

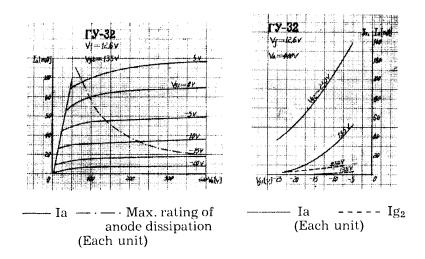
Weight: 100 g. (max.)

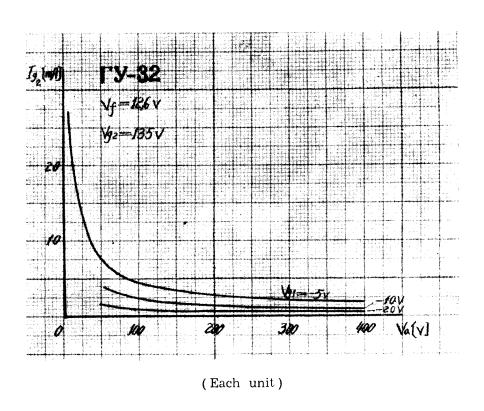
Mounting: Any.









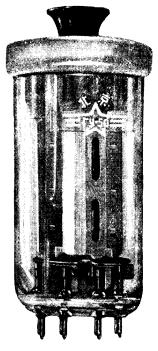


### **PENTODE**

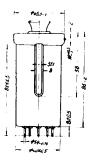
# ГУ-50

#### DESCRIPTION

The transmitting tube PEKING FY-50 is a h.f. pentode with indirectly heated oxide cathode and a zirconium coated nickel anode. Specially designed for compact marine wireless equipment, and suitable for suppressormodulated h.f. amplifier.







#### HEATER

HEATER			
Heater voltage	$v_h$	12.6	V
Heater current	$I_h$	0.765	A
CHARACTERISTICS			
Anode voltage	Va	800	V
Grid No. 3 voltage	$Vg_3$	0	V
Grid No. 2 voltage	$\mathrm{Vg}_2$	250	V
Grid No. 1 voltage	$Vg_1^-$	-40	V
Anode current	Ia	50	mA
Transconductance	S	4	mA/V
Amplification factor ( $g_1$ to $g_2$ )	$\mu$	5.3	
TYPICAL OPERATION			
For Class C Amplifier			
Anode voltage	Va	800	V
Grid No. 3 voltage	$\mathrm{Vg}_3$	0	V
Grid No. 2 voltage	$\operatorname{Vg}_2$	250	V
Grid No. 1 voltage	$\overline{\mathrm{Vg}_{1}}$	-100	V

### PEKING ELECTRON TUBES



### **PENTODE**

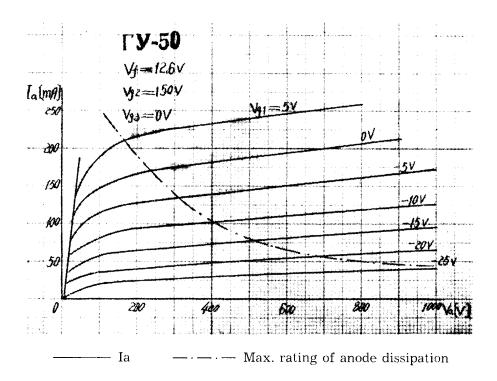
Peak exciting grid No. 1 voltage	$Vg_1 \sim$	135	V
Anode current	Ia	$\leq 150$	mA
Grid No. 2 current	$Ig_{2}$	$\leq 20$	mA
Grid No. 1 current	$Ig_1$	≤3	mA
Power output	Wo	>60	W
Frequency	ſ	66.6	MC/S
MAXIMUM RATINGS			
Heater voltage	$v_h$	10.8 - 14.5	V
Anode voltage:			
at frequency up to $46.1~\mathrm{MC/S}$	Va max	1000	V
at frequency up to 66.6 MC/S	Va max	800	V
at frequency up to 85.7 MC/S	Va max	700	V
at frequency up to 120 MC/S	Va max	600	V
Peak anode voltage	Vap max	3000	V
Grid No. 2 voltage	$Vg_2$ max	250	V
Anode dissipation	Wa max	40	W
Grid No. 2 dissipation	${ m Wg}_2$ ${ m max}$	5	W
Grid No. 1 dissipation	Wg <sub>1</sub> max	1	W
Heater—cathode voltage	$v_{hk}$	200	V
Cathode current	$I_\mathbf{k}$ max	230	mA
Circuit resistance between cathode and heater	R <sub>hk</sub> max	5	ΚΩ
Blub temperature	T <sub>b</sub> max	$200^{\circ}$	С
CAPACITANCES			
Input	Ci	14	рF
Output	Co	9.15	pF
Grid No. 1 to anode	Cg <sub>↑</sub> /a	0.1	рF

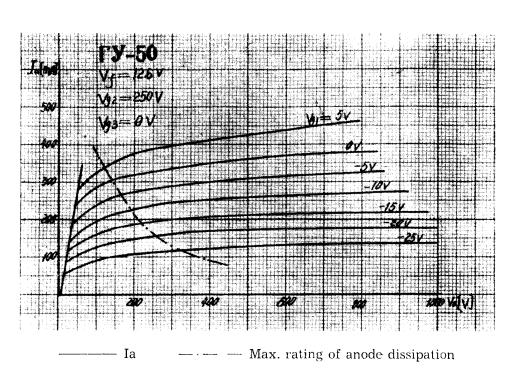
Base: Special 8-pin (see drawing)

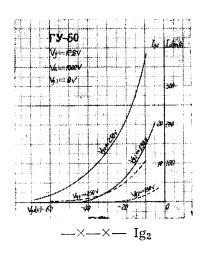
Weight: 100 g. (max.) Cooling: Radiation

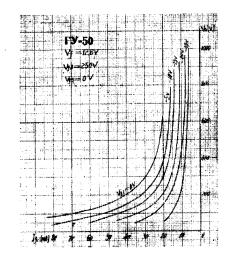
Mounting: Vertical, base down.

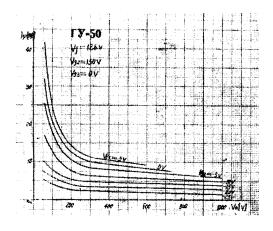










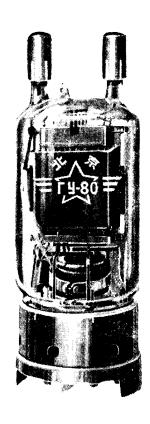


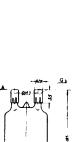
### **PENTODE**

ГУ-80

#### DESCRIPTION

tube The transmitting PEKING ΓУ-80 is a high efficiency h.f. power pentode with a directly heated carbonized thoriated tungsten filament and a ruggedly concoated structed zirconium graphite anode. Specially designed for the last stage amplifier of the marine wireless equipment and the excitation of the large wireless equipment, and also excellent as suppressor-modulated amplifier.





#### **FILAMENT**

Filament voltage	12.6	V
Filament current	< 10.5	A

#### **CHARACTERISTICS**

Anode voltage	Va	2000	V
Grid No. 3 voltage	$Vg_3$	0	V
Grid No. 2 voltage	$\mathrm{Vg}_2$	600	V
Grid No. 1 voltage	Vg <sub>1</sub>	-140	V
Anode current	Ia	200	mA
Transconductance	S	5.5	m/AV
Amplification factor $(g_1 \text{ to } g_2)$	$\mu$	3.2	

### PEKING ELECTRON TUBES



### **PENTODE**

TYPICAL OPERATION	١
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For Class C Amplifier			
Anode voltage	Va	2000	V
Grid No. 3 voltage	$Vg_3$	0	V
Grid No. 2 voltage	Vg.	600	V
Grid No. 1 voltage	$\mathrm{Vg}_1^-$	-200	V
Peak exciting grid No. 1 voltage	Vg₁~	300	V
Anode current	Ia	$605\pm75$	mA
Grid No. 2 current	Ig.	< 200	mA
Grid No. 1 current	$Ig_1$	< 20	mA
Power output	Po	> 675	W
Frequency	f	12	MC/S
XIMUM RATINGS			

#### **MAXIMUM RATINGS**

Filament voltage	$ m V_{ m f}$	11.813.4	V
Anode voltage:			
at frequency up to $6~\mathrm{MC/S}$	Va max	3000	V
at frequency up to $24~\mathrm{MC/S}$	Va max	2500	V
at frequency up to $50~\mathrm{MC/C}$	Va max	1500	V
Peak Grid No. 2 voltage	$Vg_2$ max	1200	V
Anode dissipation	Wa max	450	W
Grid No. 2 dissipation	Wg <sub>2</sub> max	120	W
Grid No. 1 dissipation	Wg <sub>1</sub> max	10	W
Bulb temperature	T <sub>b</sub> max	$350\degree$	C

#### **CAPACITANCES**

Input	Ci	28.5	рF
Output	Co	22.5	pF
Grid No. to anode	Cg <sub>1</sub> ∕a	< 0.5	рF
Grid No. 1 grid No. 3	${\sf Cg_1/g_3}$	45	рF

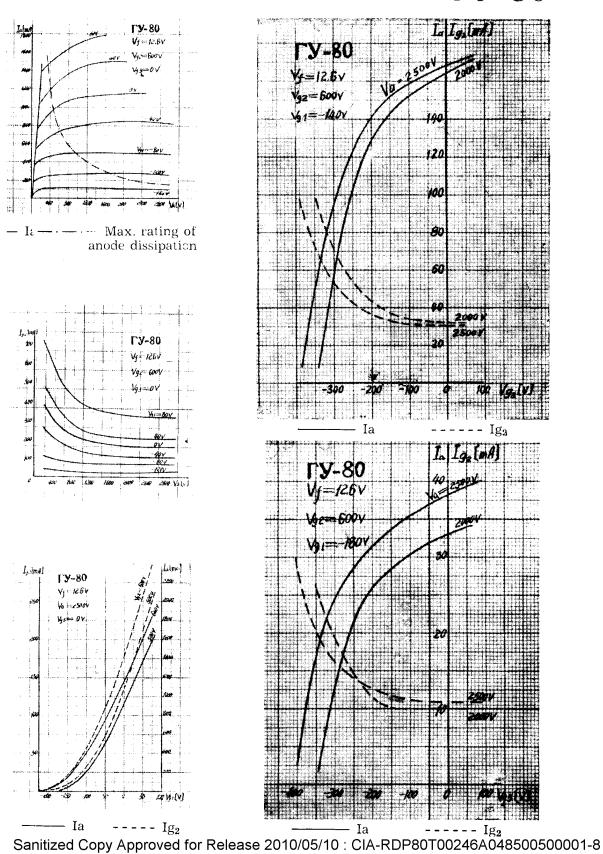
Base: Special 6-pin (see drawing)

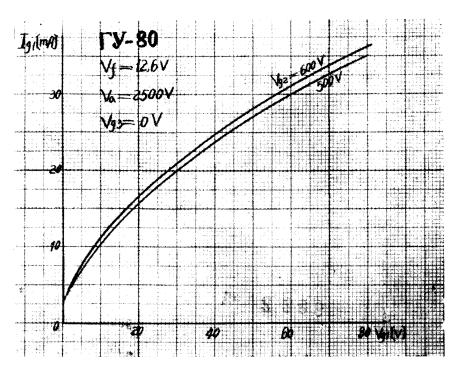
Weight: 1 kgs. (max.) Cooling: Radiation

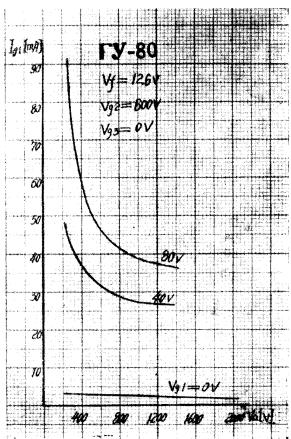
Mounting: Vertical only, base down.











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### TRIODE

### ГУ-89А

#### DESCRIPTION

The transmitting tube PEKING  $\Gamma V$ -89A is a water and forced-air cooled triode with directly heated tungslten filament and designed for an anode dissipation of 5 k.w. It can be employed as h.f. amplifier and oscillator for frequency up to 100 Mc/s as well as a.f. amplifier and modulator.







#### **FILAMENT**

Filament voltage	${ m v_f}$	11	V
Filament current	${\sf T_f}$	124	Α

#### **CHARACTERICTICS**

Filament cold resistance	$R_{\mathbf{f}}$	0.0083	Ω
Cathode emission	$I_k$	9	A
Transconductance (1.6KV/3A)	S	10	mA/V
Amplification factor (3 & 5 KV/1A)	$\mu$	20	
Hormal power output at frequecy up to 25 MC/S	Wo	10	KW

### PEKING ELECTRON TUBES



### ГУ-89А

### **TRIODE**

#### **MAXIMUM RATINGS**

Filament voltage	$v_{f\ max}$	11	V
Filament starting current	I <sub>f st. max</sub>	185	A
Anod voltage			
at frequency up to 25 MC/S	Va max	8.5	KV
at frequency up to 75 MC/S	Va max	7	KV
at frequency up to 100 MC/S	Va max	6	KV
Anode dissipation	Wa max	5	KW
Grid dissipation	Wg max	300	W
Frequency	f max	100	MC/S
CAPACITANCES			
Input	Ci	23.3	pF
Output	Co	3.0	pF

Cg/a

17.5

pF

#### COOLING

Anode: by circulating water, 24 liters/min

Buld: by forced air, 40 m³/hour

Weight: 1.2 gks. (max.)

Grid to anode

Mounting: vertical, anode down.

Note: Curves for the  $\Gamma V-89\Lambda$  are the same as those for type  $\Gamma V-89\Phi$ 

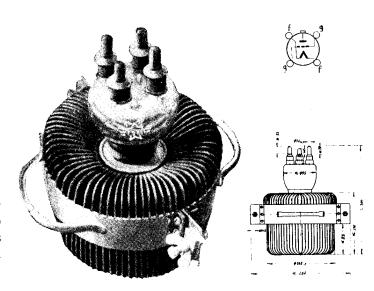


### **TRIODE**

### ГУ-89Б

#### DESCRIPTION

The transmitting tube PEKING ГУ-89Б is a forced-air cooled triode with directly heated tungsten filament and is designed for an anode dissipation of 5 kw. It can be employed as h.f. amplifier and oscillator for frequency up to 100 Mc/s as well as a.f. amplifier and modulator.



#### **FILAMENT**

Filament voltage	$\mathtt{v_f}$	11	V	
Filament current	$\mathtt{I_{f}}$	124	Α	

#### **CHARACTERICTICS**

Filament cold resistance	$R_{\mathbf{f}}$	0.0083	Ω
Cathode emission	$I_{\mathbf{k}}$	9	Α
Transconductance (1.6 KV/3A)	S	10	ma/V
Amplification factor (3 & 5 KV/1A)	$\mu$	20	
Hormal power outputr at frequecy up to 25 MC/S	Wo	10	KW

### PEKING ELECTRON TUBES



ГУ-89Б

### **TRIODE**

#### **MAXIMUM RATINGS**

Filament voltage	$v_{f\ max}$	11	v
Filament starting current	If st. max	185	Α
Andoe voltage:			
at frequency up to $25~\mathrm{MC/S}$	Va max	8.5	KV
at frequency up to $75~\mathrm{MC/S}$	Va max	7	KV
at frequency up to $100\ MC/S$	Va max	6	KV
Anode dissipation	Wa max	5	KW
Grid dissipation	Wg max	300	KW
Frequency	f max	100	MC/S
CAPACITANCES			
Input	Ci	23.3	pF
Output	Co	3.0	pF

Cg/a

17.5

pF

#### **COOLING**

Anode: by forced air  $850 \text{ m}^3/\text{hour}$  Buld: by forced air  $25 \text{ m}^3/\text{hour}$ 

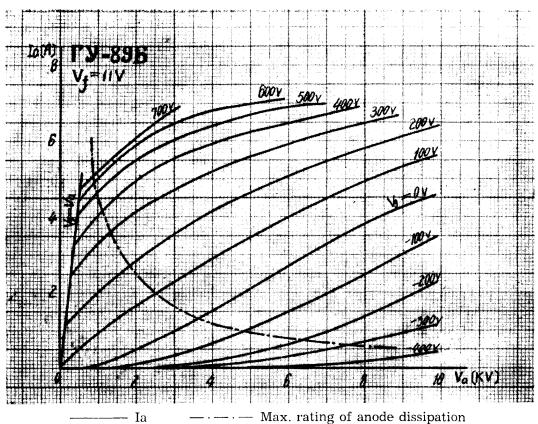
Weight: 1.7 kgs. (max.)

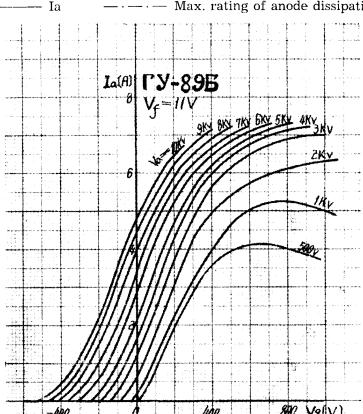
Grid to anode

Mouting: vertical, anode down



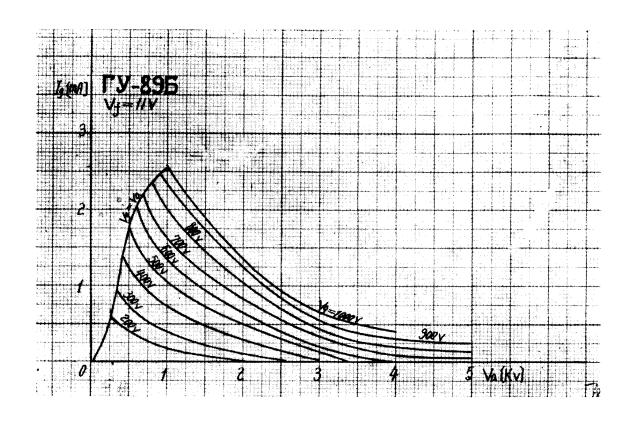
# ГУ-89Б

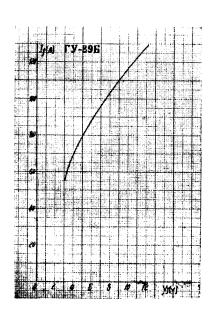


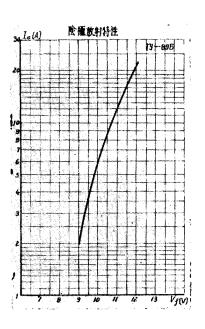


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# ГУ-89Б



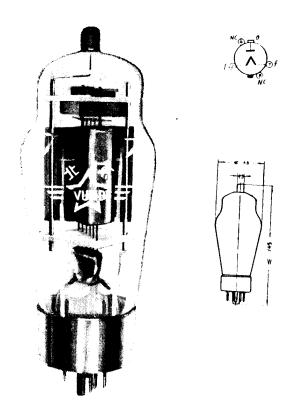




# HALF-WAVE RECTIFIER

#### **DESCRIPTION**

The octal type PEKING, VU-IIID is a high vaccum half-wave rectifier with directly heated oxide filament, designed for use as high-tension power supply in a.c. main operated equipment.



#### **FILAMENT**

Filament voltage	${ m v_f}$	4	v
Filament current	$\mathtt{I}_{\mathbf{f}}$	1.1—1.5	Α
CHARACTERISTICS			
Anode voltage	Va	160	v
Anode current	Ia	>80	mA
OPERATING CONDITIONS			
R.M.S. anode supply voltage	<b>V</b> a∼	5000	v
Load resistor	$R_{l}$	100	$K\Omega$
Filter capacitor	$\mathtt{C}_{\mathbf{f}}$	1	$\mu { m F}$
D.C. output current	II	>50	mA

### PEKING ELECTRON TUBES



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# VU-IIID HALF-WAVE RECTIFIER

#### **MAXIMUM RATINGS**

Filament voltage	${ m v_f}$	3.84.2	V
Peak inverse anode voltage	Vpk max	12	KV
Peak anode current	Ipk max	0.4	Α
Anode dissipation	Wa max	12	W

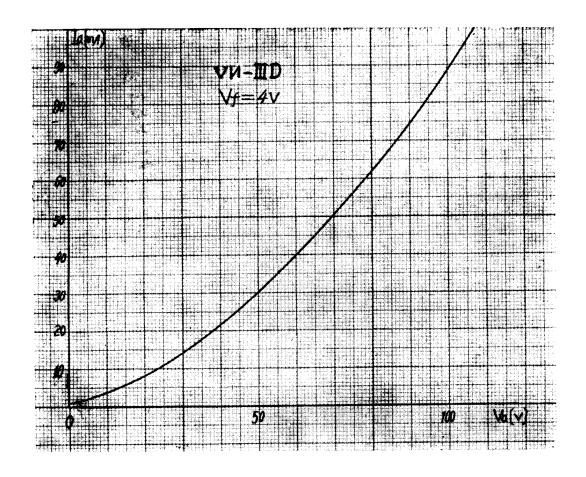
Base: Octal

Weight: 100 g. (max.)

Mounting: Any.





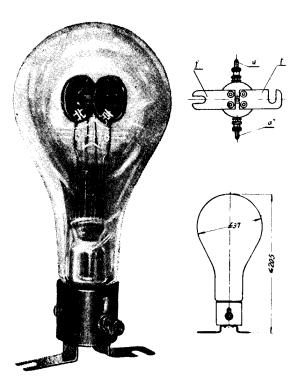


# LOW-VOLTAGE FULL-WAVE RECTIFIER

ВГ-176

#### DESCRIPTION

The PEKING type BI-176 is a low-voltage full-wave rectifier with argon-gas filling and a directly heated thoriated molybdenum filament. Specially designed for chargers of storage batteries or alkaline cells.



#### **FILAMENT**

Filament voltage	${ m v_f}$	2.5	V
Filament current	$\mathtt{I}_{\mathbf{f}}$	11	Α
CHARACTERISTICS			

Peak inverse anode voltage	V <sub>pk</sub> max	150	v
Peak anode current	I <sub>pk</sub> max	9	Α
D.C. output current	${ m I_l}$ max	6	Α
Arc voltage (Anode voltage drop)	$V_{arcmax}$	14	V
Ignition voltage	$v_{ig}$	< 20	V
Ambient temperature range	-50°C to $+50$	°C	
Filament heating-up time	t <sub>f</sub> min	30	Sec.

Base: Special base (see drawing)

Weight: 200 g. (max.)

Mounting: Vertical, base down.

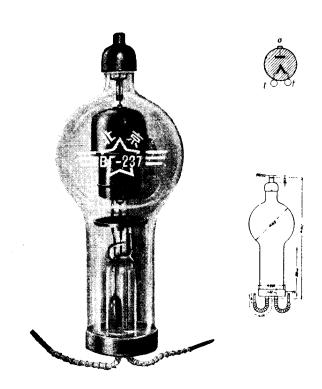
### PEKING ELECTRON TUBES



### MERCURY-VAPOUR RECTIFIER $B\Gamma$ -237

#### **DESCRIPTION**

THE PEKING type BΓ-237 is a half-wave, mercury-vapour hot-cathode rectifier tube for high-peak inverse voltage. It can be used in high-tension rectifiers for transmitters, h.f. industrial generators and other purposes.



#### **FILAMENT**

Filament voltage	$ m v_{f}$	5	V
Filament current	$\mathbf{I_f}$	≤22	A

#### **CHARACTERISTICS**

Peak inverse anode voltage	Vpk	10	KV
Peak anod current	Ipk	10	Α
Arc voltage (Anode voltage drop)	Varc	16	V
Ambient temperature range	+15°C to + 35°C		

### PEKING ELECTRON TUBES



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### B\Gamma-237 MERCURY-VAPOUR RECTIFIER

#### **MAXIMUM RATINGS**

Filament voltage	$ m V_{f}$	4.75—5.5	V
Peak inverse anode voltage	Vpk max	10	KV
Peak anode current	Ipk max	10	Α
Rectified current (average value)	ıı	3.5	Α
Frequency	f max	50	C/S
Filament heating-up time	${ m t_f}$ max	5	minutes

Note: After shipment or transit the tube must be pre-heated not

less than 90 minutes per month.

Weight: 1.1 kgs. (max.)

Mounting: Vertical, anode terminal up.

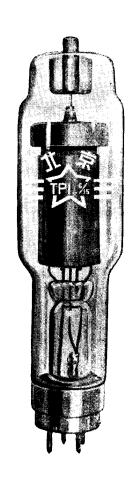


### **THYRATRON**

TP1-6/15

#### **DESCRIPTION**

The PEKING type TP1-6/15 is a thyratron with mercury-vapour filling, for a peak inverse voltage of 15 KV and a d.c. current of 6.5A, and is designed for use in grid-controlled rectifier applications.







#### **FILAMENT**

Filament voltage	${ m v_f}$	5	V
Filament current	${\rm I_f}$	< 23	Α

#### CHARACTERISTICS and Limiting Value

Peak anode voltage	Vpk max	15	KV
Peak anode current	Ipk max	20	Α
Anode current (average value)	Ia max	6.5	$\mathbf{A}$
Grid voltage	Vg min	-100	V
Grid circuit resistor	$\mathbf{R}\mathbf{g}$	1 to 5	КΩ

### PEKING ELECTRON TUBES



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TP1-6/15

### **THYRATRON**

Filament voltage	Vf	4.75 - 5.95	V
Frequency	f max	50	C/S
Filament heating time	$t_f$ min	15	minutes
Ambient temperature range	+15	5°C to + 35°C	

Note: After shipment or transit the tube.must be pre-heated not less than 60 minutes per month.

Base:

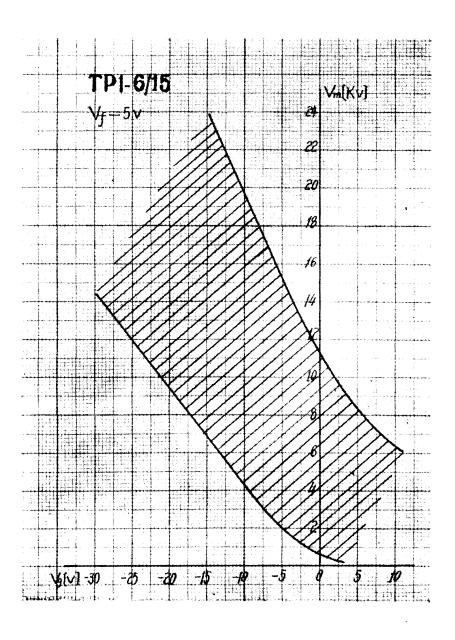
Special 4-pin (see drawing)

Weight: 1 kgs.

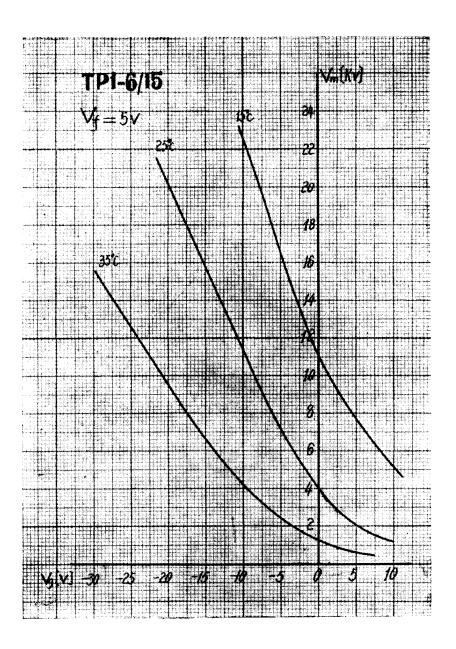
Mounting: Vertical, base down



# TP1-6/15



# TP1-6/15

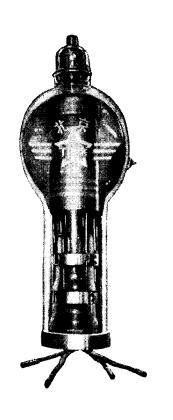


### **THYRATRON**

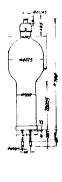
# TP1-40/15

#### **DESCRIPTION**

The PEKING type TP1-40/15 is a thyratron with mercury-vapour filling, for a peak inverse voltage of 15 KV and a d.c. current of 40 A, and is designed for use in grid-controlled rectifier applications.







#### **FILAMENT**

Filament voltage	${ m v_f}$	5	V
Filament current	$\mathtt{I}_{\mathbf{f}}$	68	A

#### **CHARACTERISTICS** and Limiting Values

Peak anode voltage	Vpk max	15	KV
Peak anode current	Ipk max	120	A
Anode current (average value)	Ia max	40	A
Grid voltage	Vg min	—100	V
Grid circuit resistor	Rg	1 to 5	K U
Filament voltage	$V_{\mathbf{f}}$	4.75 - 5.25	V
Filament heating time	t <sub>f</sub> min	30	minutes

### PEKING ELECTRON TUBES



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TP1-40/15

### **THYRATRON**

Frequency

f max

50

C/S

Ambient temperature range

+ 15°C to + 35°C

Note: After shipment or transit the tube must be pre-heated not

less than 120 minutes per month.

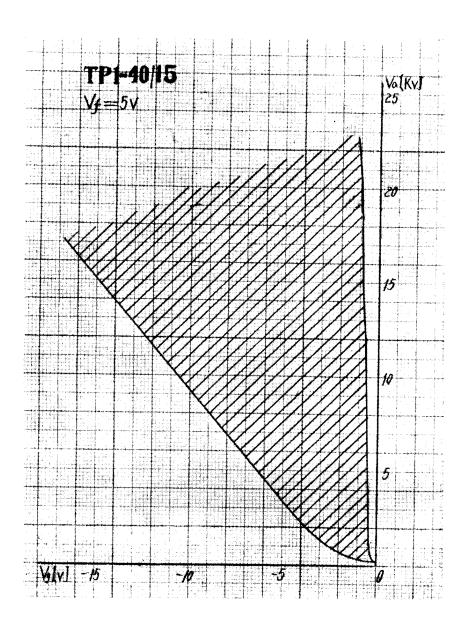
Weight:

4 kgs.

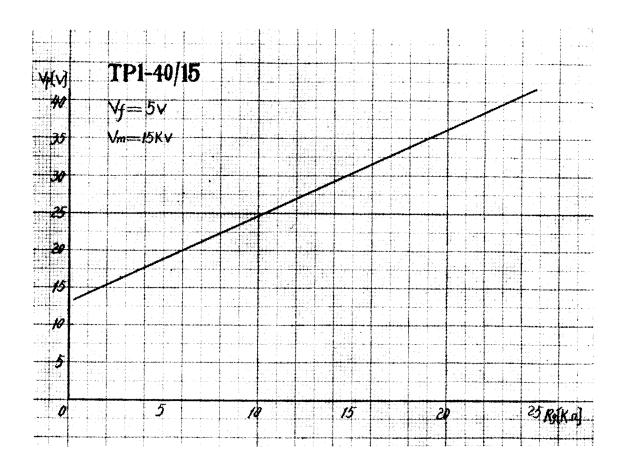
Mounting: Vertical, anode terminal up.



# TP1-40/15



# TP1-40/15



### VOLTAGE REGULATOR

### СГ1П

#### **DESCRIPTION**

The miniature tube PE-KING CIIII is a inert-gas-filled two-electrode tube, cold cathode glow-discharge type, intended for use as a voltage regulator.







#### **CHARACTERISTICS**

Starting voltage	Vst	<180	V
Operating voltage	Vop	. 150	v
Regulation (5 to 30 mA)	Vrg	<4	V
Noise (effective value)	Vni	<b>&lt;</b> 5	mV

#### LIMITING VALUES

Max. operating current	Iop max	40	mA
Min. operating current	Iop min	5	mA
Ambient temperature range	−60°C te	$^{\rm O}+80{\rm {}_{\circ}C}$	

Base: Miniature 7 pin

Weight: 14 g. (max.)

Mounting: Any

### PEKING ELECTRON TUBES



#### INTERCHANGEABILITY LIST

The following list indicates PEKING TYPE equivalent or similar to various other maker.

TYPE	PRODUCER	PEKING TYPE	NOTES
DAF 91	Mullard, Phillips, Telefunken	1Б2П	N
DAF 96	Mullard, Philips, R.F.T., Telefunken	1Б2П	D
DAF 191	R.F.T.	1Б2П	N
DF 91	Mullard, Philips, Telefunken	1К2П	N
DF 96	Mullard, Philips, R.F.T., Telefunken	1К2П	D
DF 191	R.F.T.	1К2П	N
DK 91	Mullard, Philips, Telefunken	1А2П	N
DK 96	Mullard, Philips, R.F.T., Telefunken	1А2П	D
DK 192	R.F.T.	1А2П	N
DL 92	Mullard, Philips, Telefunken	2П2П	N
DL 96	Mullard, Philips, R.F.T., Telefunken	2П2П	D
DL 192	R.F.T.	2П2П	N
EAA 91	Philips, R.F.T., Telefunken	6X2H	D
EB 91	Mullard, Philips	6X2П	D
ECC 83	Mullard, Philips, R.F.T., Telefun-		
TT 00	ken, Tungsram	6Н2П	D
EF 93	Mullard, Philips	6К4П	D
EF 95	Mullard, Philips, R.F.T.	6Ж1П	D
EK 90	Mullard	6А2П	D
EL 90 EM 80	Mullard	∳ 6П1П	В
FIM 90	Mullard, Philips, Telefunken	6E1II	Ţ.
EZ 90	Tungsram Mullard	6Ц4П	D C
OA 2	Philips, R.C.A.	СГ1П	D
OS 450	Tungsram	гу-80	; D
P 50/2	R.F.T.	ΓУ-50	D
QQE 04/20	Philips	ГУ-32	D
RD 5 XF	Tesla	ГУ-89Б	D
RD 5 YF	Tesla	ГУ-89А	D
RS 384	Telefunken	ГУ-80	D
1AB6	Philips, R.C.A., Telefunken	1А2П	. D
1AF33	Tesla	1Б2П	D
1AF34	Tesla	1Б2П	D
1AH5	Philips, R.C.A., Telefunken	1Б2П	D
1AJ5	Philips, R.C.A., Telefunken	1К2П	D
1F33	Tesla	1К2П	<sub>t</sub> D
1F34	Tesla	¦ 1K2Π	D
1H33	Tesla	1A2Π	D
1H34	Tesla	1Α2Π	D
1K22	Toshiba	2H2C	В
1L33	Tesla	2Π2Π	D
1L34	Tesla	2П2П	D

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TYPE	PRODUCER	PEKING TYPE	NOTES
1R5	Philips, R.C.A. Tungsram	1А2П	N
1R5T	Tungsram Tungsram	1А2П	D
1S5	Philips, R.C.A. Tungsram	1Б2П	N
1S5T	Tungsram	1Б2П	D
1T4	Philips, R.C.A. Tungsram	1К2П	N
1T4T	Tungsram Tungsram	1К2П	D
2B32	Tungsram Toshiba, N.E.C.	ГУ-32	D
2X2A	R.C.A.	2Ц2С	В
3C4	Philips, R.C.A., Telefunken	$2\Pi 2\Pi$	D
3S4	Philips, R.C.A. Tungsram	2Π2Π	N
3S4T	Tungsram Tungsram	2Π2Π	D
5P7O	Toshiba	ГУ-80	N
5SO45T	Elektroimpex	ГУ-80	D
6AK5	Philips, R.C.A. Tungsram	6Ж1П	D
6AL5	Philips R.C.A., Telefunken	, , , , , , , , , ,	_
01120	Tungsram	6Х2П	D
6AQ5	Philips R.C.A., Telefunken		-
55545	Tungsram	6П1П	В
6B32	Tesla	6X2H	D
6BA6	Philips R.C.A., Telefunken		
	Tungsram	6К4П	D
6BE6	Philips R.C.A., Telefunken		
	Tungsram	6А2П	D
6BR5	Philips, R.C.A., Telefunken	6Е1П	D
6F31	Tesla	6K4Π	D
6F32	Tesla	6Ж1П	D
6H31	Tesla	6А2П	D
6L31	Tesla	6П1П	В
6X4	Philips, R.C.A. Tungsram	6Ц4П	C
6Z31	Tesla	6Ц4П	C
12AX7	R.C.A.	6Н2П	D
150C2	Mullard	СГПП	D
832-A	Philips, R.C.A.	ГУ-32	D
889-A	R.C.A.	ГУ-89А	D
889R-A	R.C.A.	ГУ-89Б	D

Notes: D — Direct equivalents.

C — Direct equivalents but connection of electrodes differences.

B — Direct equivalents but base differences.

N — Near equivalents.

# 中國儀器進口咨司 CHINA NATIONAL INSTRUMENTS IMPORT CORPORATION (IMPORTERS & EXPORTERS)

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